



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12N 15/12, C07K 14/47, C12Q 1/68, G01N 33/68, C07K 16/18, A61K 31/70	A2	(11) International Publication Number: WO 99/64594 (43) International Publication Date: 16 December 1999 (16.12.99)
(21) International Application Number: PCT/US99/13181 (22) International Filing Date: 10 June 1999 (10.06.99) (30) Priority Data: 60/088,877 11 June 1998 (11.06.98) US Not furnished 9 June 1999 (09.06.99) US (71) Applicant: CHIRON CORPORATION [US/US]; 4560 Horton Street, Emeryville, CA 94608-2916 (US). (72) Inventors: ASTEL, Jon, H.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). CARROLL, Eddie, III; 4560 Horton Street, Emeryville, CA 94608-2916 (US). ENDEGE, Wilson, O.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). FORD, Donna, M.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). MONAHAN, John, E.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). SCHLEGEL, Robert; 4560 Horton Street, Emeryville, CA 94608-2916 (US). STEINMANN, Kathleen, E.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). ZHANG, Jimmy; 4560 Horton Street, Emeryville, CA 94608-2916 (US). (74) Agents: BAYNHAM, Robert, J.; Chiron Corporation, Intellectual Property-R338, P.O. Box 8097, Emeryville, CA 94662-8097 (US) et al.	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>	
(54) Title: GENES AND GENE EXPRESSION PRODUCTS THAT ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER		
(57) Abstract This invention relates to novel human genes, to proteins expressed by the genes, and to variants of the proteins. The invention also relates to diagnostic and therapeutic agents related to the genes and proteins, including probes, antisense constructs, and antibodies. The invention further relates to polynucleotides differentially expressed in prostate cancer.		

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GENES AND GENE EXPRESSION PRODUCTS THAT ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

FIELD OF THE INVENTION

This invention relates to the area of diagnosis, prognosis, and treatment
5 of cancer, tumor progression, hyperproliferative cell growth, and accompanying
physical and biological manifestations. More specifically, the invention includes
polynucleotides that are differentially regulated in prostatic disorders, such as metastatic
prostate cancer, localized prostate cancer, and benign prostate hyperplasia (BPH).

BACKGROUND OF THE INVENTION

10 Genes that are up- or down-regulated in cancer or tumor progression are
useful for therapeutic and diagnostic purposes. For example, detection of genes or gene
expression products up-regulated in hyperproliferative cells can be a predictive or
diagnostic marker of the onset or the progression of cancer. Early diagnosis can be
useful if the cancer, tumors, or hyperproliferating cells can be inhibited, removed, or
15 terminated to prevent metastasis or recurrence of cancerous growth. Such early warning
is of particular use to prostate cancer patients, where removal of the growth, tumor, or
cells is beneficial if the disease is confined to the prostate. There is a need in the art for
genes related to cancer and tumor progression.

SUMMARY OF THE INVENTION

20 The present invention provides methods and reagents for diagnosing
cancer, tumor progression, hyperproliferative cell growth, and accompanying biological
and physical manifestations. Reagents for such diagnostic kits include:

- (a) polynucleotides comprising a sequence capable of hybridizing to
one or more of SEQ ID NO:1-339 or complement thereof;
- 25 (b) polypeptides comprising the amino acid sequence encoded by
any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides comprising the amino
acid sequence of (b).

The methods of diagnosis of the present invention include both nucleic acid assays and immunoassays.

In another embodiment, the present invention provides both compositions and methods for treating or ameliorating cancer, tumor progression, hyperproliferative cell growth, and accompanying biological and physical manifestations. The compositions for treatment or amelioration include:

- (a) polynucleotides comprising the sequence capable of hybridizing to one or more of the sequences shown in SEQ ID NO:1-339 and complement thereof, including antisense, ribozyme and gene therapy nucleic acid constructs;
- 10 (b) polypeptides comprising the amino acid sequence encoded by any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides of polypeptides comprising the amino acid sequence (b).

Methods of treatment or amelioration include administering compositions of
15 polynucleotides, polypeptides, antibodies, or combinations thereof and can be used

- (a) to inhibit translation and/or transcription;
 - (b) to inhibit biological activity;
 - (c) as a vaccine antigen; and
 - (d) as an immune system inducer.
- 20 Such compositions can be administered systemically or locally to the desired site.

In one embodiment, the present invention provides a composition comprising an isolated polynucleotide selected from the group consisting of

- (a) any one of SEQ ID NOs:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;
- (b) a polynucleotide that encodes a variant of the polypeptide encoded by (a); and
- (c) a polynucleotide encoding a protein expressed by a
30 polynucleotide having the sequence of any one of the sequences of (a).

Preferably, the nucleic acid obtained from the biological material of part (b) above is genomic DNA or mRNA. The nucleic acid can also be cDNA complementary to the mRNA.

Another embodiment of the invention is the use of the isolated
5 polynucleotides or parts thereof as diagnostic probes or as primers.

In another embodiment, the present invention provides a composition comprising a polypeptide, wherein said polypeptide is selected from the group consisting of:

(a) a polypeptide encoded by any one of SEQ ID Nos:2, 5, 49, 50,
10 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;

(b) a polypeptide encoded by full-length mRNA or cDNA
corresponding to any one of SEQ ID NO:1-339; and

15 (c) a variant of the protein (a) or (b);

In certain preferred embodiments, the polynucleotide is operably linked to an expression control sequence. The invention further provides a host cell, including bacterial, yeast, insect and mammalian cells, transformed with the polynucleotide sequence. The invention also provides the full-length cDNA and the full length human
20 gene corresponding to the polynucleotide.

Protein and polypeptide compositions of the invention may further comprise a pharmaceutically acceptable carrier. Compositions comprising an antibody that specifically reacts with such protein or polypeptide are also provided by the present invention.

25 The invention further relates to a polypeptide or nucleic acid obtained by transforming a host cell with nucleic acid comprising at least one of SEQ ID NO:1-339, culturing the host cell, and recovering the replicated nucleic acid, the expressed RNA, and/or the expressed polypeptide.

Brief Description of the Figures

30 Figure 1 provides the open reading frame for clone SL 195.

Figure 2 provides the open reading frame for clone SL 197.

Figure 3 provides the immunohistochemistry staining results for clone SL 5 expression in a variety of normal and tumor tissues.

Detailed Description of the Invention

Genes that are up- or down-regulated in cancer or tumor progression are useful for therapeutic and diagnostic purposes. For example, a diagnostic assay to determine the stage of the disease also is useful in tailoring treatment of aggressive versus more mild cancer or tumor progression. The polynucleotide sequences and encoded polypeptides of the present invention are useful for these diagnostic or prognostic purposes.

Further, modulation of genes or gene expression products that are mis-regulated can be used to treat or ameliorate cancer, tumor progression, hyperproliferative cell growth, and the accompanying physical and biological manifestations. For example, the polynucleotide sequences provided herein as SEQ ID NO:1-339, can be used to construct the following polynucleotide and polypeptide compositions that are useful for treatment: antisense; ribozymes; antibodies; vaccine antigens; and immune system inducers, to induce dendritic cells, for example.

Identified herein are polynucleotide sequences that are upregulated in a cancer cell line, more specifically in a prostate cancer cell line. Thus, the present invention relates to methods and reagents for diagnosis, and to methods and compositions for treatment.

I. Use of Polynucleotides Having a Sequence of One or More of SEQ ID NO:1-339 to Obtain Full-Length cDNA and Full-Length Human Gene and Promoter Region

Full-length cDNA molecules comprising the disclosed sequences are obtained as follows. The polynucleotide or a portion thereof comprising at least 12, 15, 18, or 20 nucleotides is used as a hybridization probe to detect hybridizing members of a cDNA library using probe design methods, cloning methods, and clone selection techniques as described in U.S. Patent No. 5,654,173, "Secreted Proteins and Polynucleotides Encoding Them," incorporated herein by reference. Libraries of cDNA are made from selected tissues, such as normal or tumor tissue, or from tissues of a

mammal treated with, for example, a pharmaceutical agent. Preferably, the tissue is the same as that used to generate the polynucleotides, as both the polynucleotides and the cDNA represent expressed genes. Most preferably, the cDNA library is made from the biological material described herein in the Examples. Alternatively, many cDNA
5 libraries are available commercially. (Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989).

Members of the library that are larger than the polynucleotide, and preferably that contain the whole sequence of the native message, are obtained. In order
10 to confirm that the entire cDNA has been obtained, RNA protection experiments are performed as follows. Hybridization of a full-length cDNA to an mRNA will protect the RNA from RNase degradation. If the cDNA is not full length, then the portions of the mRNA that are not hybridized will be subject to RNase degradation. This is assayed, as is known in the art, by changes in electrophoretic mobility on
15 polyacrylamide gels, or by detection of released monoribonucleotides. Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989). In order to obtain additional sequences 5' to the end of a partial cDNA, 5' RACE (PCR Protocols: A Guide to Methods and Applications (Academic Press, Inc. 1990)) is performed.

20 Genomic DNA is isolated using polynucleotides in a manner similar to the isolation of full-length cDNAs. Briefly, the polynucleotides, or portions thereof, are used as probes to libraries of genomic DNA. Preferably, the library is obtained from the cell type that was used to generate the polynucleotides, but this is not essential. Most preferably, the genomic DNA is obtained from the biological material described
25 herein in the Examples. Such libraries may be in vectors suitable for carrying large segments of a genome, such as P1 or YAC, as described in detail in Sambrook *et al.*, 9.4-9.30. In addition, genomic sequences can be isolated from human BAC libraries, which are commercially available from Research Genetics, Inc., Huntsville, Alabama, USA, for example. In order to obtain additional 5' or 3' sequences, chromosome
30 walking is performed, as described in Sambrook *et al.*, such that adjacent and

overlapping fragments of genomic DNA are isolated. These are mapped and pieced together, as is known in the art, using restriction digestion enzymes and DNA ligase.

Using the polynucleotides sequences of the invention, corresponding full length genes can be isolated using both classical and PCR methods to construct and
5 probe cDNA libraries. Using either method, Northern blots, preferably, are performed on a number of cell types to determine which cell lines express the gene of interest at the highest rate.

Classical methods of constructing cDNA libraries are taught in Sambrook et al., supra. With these methods, cDNA can be produced from mRNA and
10 inserted into viral or expression vectors. Typically, libraries of mRNA comprising poly(A) tails can be produced with poly(T) primers. Similarly, cDNA libraries can be produced using the instant sequences as primers.

PCR methods are used to amplify the members of a cDNA library that comprise the desired insert. In this case, the desired insert will contain sequence from
15 the full length cDNA that corresponds to the instant ESTs. Such PCR methods include gene trapping and RACE methods. Gruber *et al.*, PCT WO 95/04745 and Gruber *et al.*, U.S. Pat. No. 5,500,356. Kits are commercially available to perform gene trapping experiments from, for example, Life Technologies, Gaithersburg, Maryland, USA. PCT Pub. No. WO 97/19110. (Apte and Siebert, *Biotechniques* 15:890-893, 1993; Edwards
20 *et al.*, *Nuc. Acids Res.* 19:5227-5232, 1991).

The promoter region of a gene generally is located 5' to the initiation site for RNA polymerase II, and can be obtained by performing 5' RACE using a primer from the coding region of the gene. Alternatively, the cDNA can be used as a probe for the genomic sequence, and the region 5' to the coding region is identified by "walking
25 up." If the gene is highly expressed or differentially expressed, the promoter from the gene may be of use in a regulatory construct for a heterologous gene.

Once the full-length cDNA or gene is obtained, DNA encoding variants can be prepared by site-directed mutagenesis, described in detail in Sambrook *et al.*, 15.3-15.63. The choice of codon or nucleotide to be replaced can be based on disclosure
30 herein on optional changes in amino acids to achieve altered protein structure and/or function.

As an alternative method to obtaining DNA or RNA from a biological material, nucleic acid comprising nucleotides having the sequence of one or more polynucleotides of the invention can be synthesized. Thus, the invention encompasses nucleic acid molecules ranging in length from 15 nucleotides (corresponding to at least 5 15 contiguous nucleotides of one of SEQ ID NO:1-339) up to a maximum length suitable for one or more biological manipulations, including replication and expression, of the nucleic acid molecule. The invention includes but is not limited to (a) nucleic acid having the size of a full gene, and comprising at least one of SEQ ID NO:1-339; (b) the nucleic acid of (a) also comprising at least one additional gene, operably linked 10 to permit expression of a fusion protein; (c) an expression vector comprising (a) or (b); (d) a plasmid comprising (a) or (b); and (e) a recombinant viral particle comprising (a) or (b).

The sequence of a nucleic acid comprising at least 15 contiguous nucleotides of at least any one of SEQ ID NO:1-339, preferably the entire sequence of 15 at least any one of SEQ ID NO:1-339, is not limited and can be any sequence of A, T, G, and/or C (for DNA) and A, U, G, and/or C (for RNA) or modified bases thereof, including inosine and pseudouridine. The choice of sequence will depend on the desired function and can be dictated by coding regions desired, the intron-like regions desired, and the regulatory regions desired.

20 Where the entire sequence of any one of SEQ ID NO:1-339 is within the nucleic acid, the nucleic acid obtained is referred to herein as a polynucleotide comprising the sequence of any one of SEQ ID NO:1-339.

II. Expression of Polypeptide Encoded by Full-Length cDNA or Full-Length Gene

The polynucleotide, the corresponding cDNA, or the full-length gene is 25 used to express the partial or complete gene product. Appropriate polynucleotide constructs are purified using standard recombinant DNA techniques as described in, for example, Sambrook *et al.*, (1989) *Molecular Cloning: A Laboratory Manual*, 2nd ed. (Cold Spring Harbor Press, Cold Spring Harbor, New York). The polypeptides encoded by the polynucleotides are expressed in any expression system, including, for example,

bacterial, yeast, insect, amphibian and mammalian systems. Suitable vectors and host cells are described in U.S. Patent No. 5,654,173.

Bacteria. Expression systems in bacteria include those described in Chang *et al.*, *Nature* (1978) 275:615, Goeddel *et al.*, *Nature* (1979) 281:544, Goeddel *et al.*, *Nucleic Acids Res.* (1980) 8:4057; EP 0 036,776, U.S. Patent No. 4,551,433, DeBoer *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1983) 80:21-25, and Siebenlist *et al.*, *Cell* (1980) 20:269.

Yeast. Expression systems in yeast include those described in Hinnen *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1978) 75:1929; Ito *et al.*, *J. Bacteriol.* (1983) 153:163; Kurtz *et al.*, *Mol. Cell. Biol.* (1986) 6:142; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Gleeson *et al.*, *J. Gen. Microbiol.* (1986) 132:3459, Roggenkamp *et al.*, *Mol. Gen. Genet.* (1986) 202:302; Das *et al.*, *J. Bacteriol.* (1984) 158:1165; De Louvencourt *et al.*, *J. Bacteriol.* (1983) 154:737, Van den Berg *et al.*, *Bio/Technology* (1990) 8:135; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Cregg *et al.*, *Mol. Cell. Biol.* (1985) 5:3376, U.S. Patent Nos. 4,837,148 and 4,929,555; Beach and Nurse, *Nature* (1981) 300:706; Davidow *et al.*, *Curr. Genet.* (1985) 10:380, Gaillardin *et al.*, *Curr. Genet.* (1985) 10:49, Ballance *et al.*, *Biochem. Biophys. Res. Commun.* (1983) 112:284-289; Tilburn *et al.*, *Gene* (1983) 26:205-221, Yelton *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1984) 81:1470-1474, Kelly and Hynes, *EMBO J.* (1985) 4:475479; EP 0 244,234, and WO 91/00357.

Insect Cells. Expression of heterologous genes in insects is accomplished as described in U.S. Patent No. 4,745,051, Friesen *et al.* (1986) "The Regulation of Baculovirus Gene Expression" in: *The Molecular Biology Of Baculoviruses* (W. Doerfler, ed.), EP 0 127,839, EP 0 155,476, and Vlak *et al.*, *J. Gen. Virol.* (1988) 69:765-776, Miller *et al.*, *Ann. Rev. Microbiol.* (1988) 42:177, Carbonell *et al.*, *Gene* (1988) 73:409, Maeda *et al.*, *Nature* (1985) 315:592-594, Lebacqz-Verheyden *et al.*, *Mol. Cell. Biol.* (1988) 8:3129; Smith *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1985) 82:8404, Miyajima *et al.*, *Gene* (1987) 58:273; and Martin *et al.*, *DNA* (1988) 7:99. Numerous baculoviral strains and variants and corresponding permissive insect host cells from hosts are described in Luckow *et al.*, *Bio/Technology*

(1988) 6:47-55, Miller *et al.*, Generic Engineering (Setlow, J.K. *et al.* eds.), Vol. 8 (Plenum Publishing, 1986), pp. 277-279, and Maeda *et al.*, *Nature*, (1985) 315:592-594.

Mammalian Cells. Mammalian expression is accomplished as described in Dijkema *et al.*, *EMBO J.* (1985) 4:761, Gorman *et al.*, *Proc. Natl. Acad. Sci. (USA)* 5 (1982) 79:6777, Boshart *et al.*, *Cell* (1985) 41:521 and U.S. Patent No. 4,399,216. Other features of mammalian expression are facilitated as described in Ham and Wallace, *Meth. Enz.* (1979) 58:44, Barnes and Sato, *Anal. Biochem.* (1980) 102:255, U.S. Patent Nos. 4,767,704, 4,657,866, 4,927,762, 4,560,655, WO 90/103430, WO 87/00195, and U.S. RE 30,985.

10 Polynucleotide molecules comprising the polynucleotide sequence are propagated by placing the molecule in a vector. Viral and non-viral vectors are used, including plasmids. The choice of plasmid will depend on the type of cell in which propagation is desired and the purpose of propagation. Certain vectors are useful for amplifying and making large amounts of the desired DNA sequence. Other vectors are
15 suitable for expression in cells in culture. Still other vectors are suitable for transfer and expression in cells in a whole animal or person. The choice of appropriate vector is well within the skill of the art. Many such vectors are available commercially. The polynucleotide is inserted into a vector typically by means of DNA ligase attachment to a cleaved restriction enzyme site in the vector. Alternatively, the desired nucleotide
20 sequence may be inserted by homologous recombination in vivo. Typically this is accomplished by attaching regions of homology to the vector on the flanks of the desired nucleotide sequence. Regions of homology are added by ligation of oligonucleotides, or by polymerase chain reaction using primers comprising both the region of homology and a portion of the desired nucleotide sequence, for example.

25 Polynucleotides are linked to regulatory sequences as appropriate to obtain the desired expression properties. These may include promoters (attached either at the 5' end of the sense strand or at the 3' end of the antisense strand), enhancers, terminators, operators, repressors, and inducers. The promoters may be regulated or constitutive. In some situations it may be desirable to use conditionally active
30 promoters, such as tissue-specific or developmental stage-specific promoters. These are

linked to the desired nucleotide sequence using the techniques described above for linkage to vectors. Any techniques known in the art may be used.

When any of the above host cells, or other appropriate host cells or organisms, are used to replicate and/or express the polynucleotides or nucleic acids of the invention, the resulting replicated nucleic acid, RNA, expressed protein or polypeptide, is within the scope of the invention as a product of the host cell or organism. The product is recovered by any appropriate means known in the art.

Once the gene corresponding to the polypeptide is identified, its expression can be regulated in the cell to which the gene is native. For example, an endogenous gene of a cell can be regulated by an exogenous regulatory sequence as disclosed in U.S. Patent No. 5,641,670, "Protein Production and Protein Delivery."

Ribozymes

Trans-cleaving catalytic RNAs (ribozymes) are RNA molecules possessing endoribonuclease activity. Ribozymes are specifically designed for a particular target, and the target message must contain a specific nucleotide sequence. They are engineered to cleave any RNA species site-specifically in the background of cellular RNA. The cleavage event renders the mRNA unstable and prevents protein expression. Importantly, ribozymes can be used to inhibit expression of a gene of unknown function for the purpose of determining its function in an in vitro or in vivo context, by detecting the phenotypic effect.

One commonly used ribozyme motif is the hammerhead, for which the substrate sequence requirements are minimal. Design of the hammerhead ribozyme is disclosed in Usman *et al.*, *Current Opin. Struct. Biol.* (1996) 6:527-533. Usman also discusses the therapeutic uses of ribozymes. Ribozymes can also be prepared and used as described in Long *et al.*, *FASEB J.* (1993) 7:25; Symons, *Ann. Rev. Biochem.* (1992) 61:641; Perrotta *et al.*, *Biochem.* (1992) 31:16-17; Ojwang *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1992) 89:10802-10806; and U.S. Patent No. 5,254,678. Ribozyme cleavage of HIV-1 RNA is described in U.S. Patent No. 5,144,019; methods of cleaving RNA using ribozymes is described in U.S. Patent No. 5,116,742; and methods for increasing the specificity of ribozymes are described in U.S. Patent No. 5,225,337 and Koizumi *et al.*,

Nucleic Acid Res. (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hammerhead structure are also described by Koizumi *et al.*, *Nucleic Acids Res.* (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hairpin structure are described by Chowrira and Burke, *Nucleic Acids Res.* (1992) 20:2835. Ribozymes can
5 also be made by rolling transcription as described in Daubendiek and Kool, *Nat. Biotechnol.* (1997) 15(3):273-277.

The hybridizing region of the ribozyme may be modified or may be prepared as a branched structure as described in Horn and Urdea, *Nucleic Acids Res.* (1989) 17:6959-67. The basic structure of the ribozymes may also be chemically
10 altered in ways familiar to those skilled in the art, and chemically synthesized ribozymes can be administered as synthetic oligonucleotide derivatives modified by monomeric units. In a therapeutic context, liposome mediated delivery of ribozymes improves cellular uptake, as described in Birikh *et al.*, *Eur. J. Biochem.* (1997) 245:1-16.

15 Therapeutic and functional genomic applications of ribozymes proceed beginning with knowledge of a portion of the coding sequence of the gene to be inhibited. Thus, for many genes, a polynucleotide sequence as disclosed herein provides adequate sequence for constructing an effective ribozyme. A target cleavage site is selected in the target sequence, and a ribozyme is constructed based on the 5' and
20 3' nucleotide sequences that flank the cleavage site. Retroviral vectors are engineered to express monomeric and multimeric hammerhead ribozymes targeting the mRNA of the target coding sequence. These monomeric and multimeric ribozymes are tested in vitro for an ability to cleave the target mRNA. A cell line is stably transduced with the retroviral vectors expressing the ribozymes, and the transduction is confirmed by
25 Northern blot analysis and reverse-transcription polymerase chain reaction (RT-PCR). The cells are screened for inactivation of the target mRNA by such indicators as reduction of expression of disease markers or reduction of the gene product of the target mRNA.

Antisense

Antisense nucleic acids are designed to specifically bind to RNA, resulting in the formation of RNA-DNA or RNA-RNA hybrids, with an arrest of DNA replication, reverse transcription or messenger RNA translation. Antisense polynucleotides based on a selected sequence can interfere with expression of the corresponding gene. Antisense polynucleotides are typically generated within the cell by expression from antisense constructs that contain the antisense EST strand as the transcribed strand. Antisense polynucleotides will bind and/or interfere with the translation of the corresponding mRNA. The expression products of control cells and cells treated with the antisense construct are compared to detect the protein product of the gene corresponding to the polynucleotide. The protein is isolated and identified using routine biochemical methods.

Antisense therapy for a variety of cancers is in clinical phase and has been discussed extensively in the literature. Reed reviewed antisense therapy directed at the Bcl-2 gene in tumors; gene transfer-mediated overexpression of Bcl-2 in tumor cell lines conferred resistance to many types of cancer drugs. (Reed, J.C., *N.C.I.* (1997) 89:988-990). The potential for clinical development of antisense inhibitors of *ras* is discussed by Cowser, L.M., *Anti-Cancer Drug Design* (1997) 12:359-371. Additional important antisense targets include leukemia (Geurtz, A.M., *Anti-Cancer Drug Design* (1997) 12:341-358); human C-ref kinase (Monia, B.P., *Anti-Cancer Drug Design* (1997) 12:327-339); and protein kinase C (McGraw *et al.*, *Anti-Cancer Drug Design* (1997) 12:315-326).

Given the extensive background literature and clinical experience in antisense therapy, one skilled in the art can use selected polynucleotides of the invention as additional potential therapeutics. The choice of polynucleotide can be narrowed by first testing them for binding to "hot spot" regions of the genome of cancerous cells. If a polynucleotide is identified as binding to a "hot spot", testing the polynucleotide as an antisense compound in the corresponding cancer cells clearly is warranted.

Ogunbiyi *et al.*, *Gastroenterology* (1997) 113(3):761-766 describe prognostic use of allelic loss in colon cancer; Barks *et al.*, *Genes, Chromosomes, and*

Cancer (1997) 19(4):278-285 describe increased chromosome copy number detected by FISH in malignant melanoma; Nishizake *et al.*, *Genes, Chromosomes, and Cancer* (1997) 19(4):267-272 describe genetic alterations in primary breast cancer and their metastases and direct comparison using modified comparative genome hybridization; and Elo *et al.*, *Cancer Research* (1997) 57(16):3356-3359 disclose that loss of heterozygosity at 16q24.1-q24.2 is significantly associated with metastatic and aggressive behavior of prostate cancer.

Dominant Negative Mutations

Dominant negative mutations are readily generated for corresponding proteins that are active as homomultimers. A mutant polypeptide will interact with wild-type polypeptides (made from the other allele) and form a non-functional multimer. Thus, a mutation is in a substrate-binding domain, a catalytic domain, or a cellular localization domain. Preferably, the mutant polypeptide will be overproduced. Point mutations are made that have such an effect. In addition, fusion of different polypeptides of various lengths to the terminus of a protein can yield dominant negative mutants. General strategies are available for making dominant negative mutants. See Herskowitz, *Nature* (1987) 329:219-222. Such a technique can be used for creating a loss of function mutation, which is useful for determining the function of a protein.

Identification of Secreted and Membrane-Bound Polypeptides

Both secreted and membrane-bound polypeptides of the present invention are of interest. For example, levels of secreted polypeptides can be assayed conveniently in body fluids, such as blood, urine, prostatic fluid and semen. Membrane-bound polypeptides are useful for constructing vaccine antigens or inducing an immune response. Such antigens would comprise all or part of the extracellular region of the membrane-bound polypeptides.

Because both secreted and membrane-bound polypeptides comprise a fragment of contiguous hydrophobic amino acids, hydrophobicity predicting algorithms can be used to identify such polypeptides.

A signal sequence is usually encoded by both secreted and membrane-bound polypeptide genes to direct a polypeptide to the surface of the cell. The signal

sequence usually comprises a stretch of hydrophobic residues. Such signal sequences can fold into helical structures.

Membrane-bound polypeptides typically comprise at least one transmembrane region that possesses a stretch of hydrophobic amino acids that can transverse the membrane. Some transmembrane regions also exhibit a helical structure.

Hydrophobic fragments within a polypeptide can be identified by using computer algorithms. Such algorithms include Hopp & Woods, Proc. Natl. Acad. Sci. USA 78: 3824-3828 (1981); Kyte & Doolittle, J. Mol. Biol. 157: 105-132 (1982); and RAOAR algorithm, Degli Esposti *et al.*, Eur. J. Biochem. 190: 207-219 (1990).

Another method of identifying secreted and membrane-bound polypeptides is to translate the present polynucleotides, SEQ ID NO:1-339, in all six frames and determine if at least 8 contiguous hydrophobic amino acids are present. Those translated polypeptides with at least 8; more typically, 10; even more typically, 12 contiguous hydrophobic amino acids are considered to be either a putative secreted or membrane bound polypeptide. Hydrophobic amino acids include alanine, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, threonine, tryptophan, tyrosine, and valine.

Putative secreted and/or membrane-bound polypeptides are encoded by the sequences of the following clones: SL-5, SL-6, SL-9, SL-11, SL-13, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, and SL-177.

Construction of Polypeptides of the Invention and Variants Thereof

The polypeptides of the invention include those encoded by the disclosed polynucleotides. These polypeptides can also be encoded by nucleic acids that, by virtue of the degeneracy of the genetic code, are not identical in sequence to the disclosed polynucleotides. Thus, the invention includes within its scope nucleic acids comprising polynucleotides encoding a protein or polypeptide expressed by a polynucleotide having the sequence of any one of SEQ ID NO:1-339. Also within the scope of the invention are variants; variants of polypeptides include mutants, fragments, and fusions. Mutants can include amino acid substitutions, additions or deletions. The amino acid substitutions can be conservative amino acid substitutions or substitutions to

eliminate non-essential amino acids, such as to alter a glycosylation site, a phosphorylation site or an acetylation site, or to minimize misfolding by substitution or deletion of one or more cysteine residues that are not necessary for function. Conservative amino acid substitutions are those that preserve the general charge, hydrophobicity/hydrophilicity, and/or steric bulk of the amino acid substituted. For example, substitutions between the following groups are conservative: Gly/Ala, Val/Ile/Leu, Asp/Glu, Lys/Arg, Asn/Gln, Ser/Cys, Thr, and Phe/Trp/Tyr.

Cysteine-depleted muteins are variants within the scope of the invention. These variants can be constructed according to methods disclosed in U.S. Patent No. 4,959,314, "Cysteine-Depleted Muteins of Biologically Active Proteins." The patent discloses how to substitute other amino acids for cysteines, and how to determine biological activity and effect of the substitution. Such methods are suitable for proteins according to this invention that have cysteine residues suitable for such substitutions, for example to eliminate disulfide bond formation.

The protein variants described herein are encoded by polynucleotides that are within the scope of the invention. The genetic code can be used to select the appropriate codons to construct the corresponding variants.

The invention encompasses polynucleotide sequences having at least 65% sequence identity to any one of SEQ ID NOs:1-339 as determined by the Smith-Waterman homology search algorithm as implemented in MSPRCH program (Oxford Molecular) using an affine gap search with the following search parameters: gap open penalty of 12, and gap extension penalty of 1.

Use of the Polynucleotides as Probes, in Mapping, and in Tissue Profiling

Probes

Polynucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence of a polynucleotide of SEQ ID NO:1-339 are used for a variety of purposes, including identification of human chromosomes and determining transcription levels.

The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known

methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations which are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide should provide a detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with other unrelated sequences.

In a non-limiting example, commercial programs are available for identifying regions of chromosomes commonly associated with disease, such as cancer. Polynucleotides of the invention can be used to probe these regions. For example, if through profile searching a polynucleotide is identified as corresponding to a gene encoding a kinase, its ability to bind to a cancer-related chromosomal region will suggest its role as a kinase in one or more stages of tumor cell development/growth. Although some experimentation would be required to elucidate the role, the polynucleotide constitutes a new material for isolating a specific protein that has potential for developing a cancer diagnostic or therapeutic.

Nucleotide probes are used to detect expression of a gene corresponding to the polynucleotide. For example, in Northern blots, mRNA is separated electrophoretically and contacted with a probe. A probe is detected as hybridizing to an mRNA species of a particular size. The amount of hybridization is quantitated to determine relative amounts of expression, for example under a particular condition. Probes are also used to detect products of amplification by polymerase chain reaction. The products of the reaction are hybridized to the probe and hybrids are detected. Probes are used for in situ hybridization to cells to detect expression. Probes can also be used in vivo for diagnostic detection of hybridizing sequences. Probes are typically labeled with a radioactive isotope. Other types of detectable labels may be used such as chromophores, fluors, and enzymes.

Expression of specific mRNA can vary in different cell types and can be tissue specific. This variation of mRNA levels in different cell types can be exploited with nucleic acid probe assays to determine tissue types. For example, PCR, branched DNA probe assays, or blotting techniques utilizing nucleic acid probes substantially

identical or complementary to polynucleotides listed in the Sequence Listing can determine the presence or absence of cDNA or mRNA related to the polynucleotides of the invention.

Examples of a nucleotide hybridization assay are described in Urdea *et al.*, PCT WO92/02526 and Urdea *et al.*, U.S. Patent No. 5,124,246, both incorporated
5 herein by reference. The references describe an example of a sandwich nucleotide hybridization assay.

Alternatively, the Polymerase Chain Reaction (PCR) is another means for detecting small amounts of target nucleic acids, as described in Mullis *et al.*, *Meth. Enzymol.* (1987) 155:335-350; U.S. Patent No. 4,683,195; and U.S. Patent No. 4,683,202, all incorporated herein by reference. Two primer polynucleotides
10 nucleotides hybridize with the target nucleic acids and are used to prime the reaction. The primers may be composed of sequence within or 3' and 5' to the polynucleotides of the Sequence Listing. Alternatively, if the primers are 3' and 5' to these polynucleotides,
15 they need not hybridize to them or the complements. A thermostable polymerase creates copies of target nucleic acids from the primers using the original target nucleic acids as a template. After a large amount of target nucleic acids is generated by the polymerase, it is detected by methods such as Southern blots. When using the Southern blot method, the labeled probe will hybridize to a polynucleotide of the Sequence
20 Listing or complement.

Furthermore, mRNA or cDNA can be detected by traditional blotting techniques described in Sambrook *et al.*, "Molecular Cloning: A Laboratory Manual" (New York, Cold Spring Harbor Laboratory, 1989). mRNA or cDNA generated from
25 mRNA using a polymerase enzyme can be purified and separated using gel electrophoresis. The nucleic acids on the gel are then blotted onto a solid support, such as nitrocellulose. The solid support is exposed to a labeled probe and then washed to remove any unhybridized probe. Next, the duplexes containing the labeled probe are detected. Typically, the probe is labeled with radioactivity.

Mapping

Polynucleotides of the present invention are used to identify a chromosome on which the corresponding gene resides. Using fluorescence in situ hybridization (FISH) on normal metaphase spreads, comparative genomic hybridization
5 allows total genome assessment of changes in relative copy number of DNA sequences. See Schwartz and Samad, *Current Opinions in Biotechnology* (1994) 8:70-74; Kallioniemi *et al.*, *Seminars in Cancer Biology* (1993) 4:41-46; Valdes and Tagle, *Methods in Molecular Biology* (1997) 68:1, Boultonwood, ed., Human Press, Totowa, NJ.

Preparations of human metaphase chromosomes are prepared using
10 standard cytogenetic techniques from human primary tissues or cell lines. Nucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence shown in the Sequence Listing are used to identify the corresponding chromosome. The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known
15 methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations that are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide-related gene provides a
20 detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with non-EST coding sequences.

Polynucleotides are mapped to particular chromosomes using, for example, radiation hybrids or chromosome-specific hybrid panels. See Leach *et al.*, *Advances in Genetics*, (1995) 33:63-99; Walter *et al.*, *Nature Genetics* (1994) 7:22-28;
25 Walter and Goodfellow, *Trends in Genetics* (1992) 9:352. Such mapping can be useful in identifying the function of the polynucleotide-related gene by its proximity to other genes with known function. Function can also be assigned to the related gene when particular syndromes or diseases map to the same chromosome.

Tissue Profiling

30 The polynucleotides of the present invention can be used to determine the tissue type from which a given sample is derived. For example, a metastatic lesion

is identified by its developmental organ or tissue source by identifying the expression of a particular marker of that organ or tissue. If a polynucleotide is expressed only in a specific tissue type, and a metastatic lesion is found to express that polynucleotide, then the developmental source of the lesion has been identified. Expression of a particular polynucleotide is assayed by detection of either the corresponding mRNA or the protein product. Immunological methods, such as antibody staining, are used to detect a particular protein product. Hybridization methods may be used to detect particular mRNA species, including but not limited to in situ hybridization and Northern blotting.

Use of Polymorphisms

10 A polynucleotide will be useful in forensics, genetic analysis, mapping, and diagnostic applications if the corresponding region of a gene is polymorphic in the human population. A particular polymorphic form of the polynucleotide may be used to either identify a sample as deriving from a suspect or rule out the possibility that the sample derives from the suspect. Any means for detecting a polymorphism in a gene are used, including but not limited to electrophoresis of protein polymorphic variants, differential sensitivity to restriction enzyme cleavage, and hybridization to an allele-specific probe.

Use of Polynucleotides to Raise Antibodies

20 Expression products of a polynucleotide, the corresponding mRNA or cDNA, or the corresponding complete gene are prepared and used for raising antibodies for experimental, diagnostic, and therapeutic purposes. The polynucleotide or related cDNA is expressed as described above, and antibodies are prepared. These antibodies are specific to an epitope on the polynucleotide-encoded polypeptide, and can precipitate or bind to the corresponding native protein in a cell or tissue preparation or in a cell-free extract of an in vitro expression system.

Immunogens for raising antibodies are prepared by mixing the polypeptides encoded by the polynucleotide of the present invention with adjuvants. Alternatively, polypeptides are made as fusion proteins to larger immunogenic proteins. Polypeptides are also covalently linked to other larger immunogenic proteins, such as keyhole limpet hemocyanin. Immunogens are typically administered intradermally,

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subcutaneously, or intramuscularly. Immunogens are administered to experimental animals such as rabbits, sheep, and mice, to generate antibodies. Optionally, the animal spleen cells are isolated and fused with myeloma cells to form hybridomas which secrete monoclonal antibodies. Such methods are well known in the art. According to
5 another method known in the art, the polynucleotide is administered directly, such as by intramuscular injection, and expressed in vivo. The expressed protein generates a variety of protein-specific immune responses, including production of antibodies, comparable to administration of the protein.

Preparations of polyclonal and monoclonal antibodies specific for
10 polynucleotide-encoded proteins and polypeptides are made using standard methods known in the art. The antibodies specifically bind to epitopes present in the polypeptides encoded by polynucleotides disclosed in the Sequence Listing. Typically, at least 6, 8, 10, or 12 contiguous amino acids are required to form an epitope. However, epitopes which involve non-contiguous amino acids may require more, for
15 example at least 15, 25, or 50 amino acids. A short sequence of a polynucleotide may then be unsuitable for use as an epitope to raise antibodies for identifying the corresponding novel protein, because of the potential for cross-reactivity with a known protein. However, the antibodies may be useful for other purposes, particularly if they identify common structural features of a known protein and a novel polypeptide
20 encoded by a polynucleotide of the invention.

Antibodies that specifically bind to human polynucleotide-encoded polypeptides should provide a detection signal at least 5-, 10-, or 20-fold higher than a detection signal provided with other proteins when used in Western blots or other immunochemical assays. Preferably, antibodies that specifically bind polypeptides do
25 not detect other proteins in immunochemical assays and can immunoprecipitate EST-encoded proteins from solution. For such immunoassays, any type of samples can be used, including tissue, organs, cells, urine, blood, prostatic fluid or semen.

Of interest are antibodies to the secreted polypeptides encoded by the present polynucleotide sequences, SEQ ID NO:1-339. Antibodies to secreted
30 polypeptides can be used to test body fluids, such as blood, urine, prostatic fluid and semen.

To test for the presence of serum antibodies to the polypeptide in a human population, human antibodies are purified by methods well known in the art. Preferably, the antibodies are affinity purified by passing antiserum over a column to which a protein, polypeptide, or fusion protein is bound. The bound antibodies can then
5 be eluted from the column, for example using a buffer with a high salt concentration.

In addition to the antibodies discussed above, genetically engineered antibody derivatives are made, such as single chain antibodies or humanized antibodies.

Antibodies to the polypeptides encoded by one or more of SEQ ID NO:1-339 also are contemplated for therapeutic compositions and uses. For example,
10 antibodies directed to membrane-bound polypeptides that are up-regulated in cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations can be constructed. Antibodies can provide a useful therapeutic in inhibiting cell growth or inducing an immune reaction to cancer, tumor, or hyperproliferating cells. Typically, such antibodies are directed the extracellular
15 regions of the membrane-bound polypeptide. The borders of such regions can be determined by identifying the location of the hydrophobic transmembrane fragment(s) in the encoded polypeptides of the present invention.

Exemplary antibodies were prepared using two sequences from clone SL-5: $\text{H}_2\text{N-CGPRLPSFPCPTHEPSTGQLSK-CONH}_2$ and $\text{H}_2\text{N-CKDSQGLSDFKR-}$
20 $\text{NSRTTTRRSYKCCONH}_2$. Using polyclonal antibodies raised against a mixture of these polypeptides, immunohistochemistry was performed on a variety of tumor tissues and corresponding normal tissue. The results are shown in Figure 3, and discussed in the Examples. These polypeptides are useful for detecting a higher level of expression of clone SL-5 in tumor tissues.

25 Use of Polynucleotides to Construct Arrays for Diagnostics

The present polynucleotide sequences and gene products are useful for determining the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations. Specifically, the polynucleotides and encoded polypeptides of the instant invention can be utilized to

determine the occurrence of prostatic disorders, such as BPH or localized prostate cancer.

A number of prostatic disorders exist, including adenocarcinoma, BPH, histologic prostate cancer, prostatic intraepithelial neoplasia, clinical prostate cancer, 5 incidental prostate cancer, and localized prostate cancer. BPH is a common prostatic disorder in men which becomes clinically manifest usually after age fifty. In BPH, hyperplastic growth of prostatic cells in the periurethral glandular tissue in the central zone of the prostate gland cause an enlarged prostate which can compress or elongate the urethra and produce symptoms of urethral obstruction that may progress to urinary 10 retention or to a constellation of symptoms known as prostatism. A host of physical manifestations can accompany prostatic disorders including: impotency, reduced urinary flow, hesitancy in initiating voiding, postvoid dribbling, a sensation of incomplete bladder emptying, and development of bladder or high urinary tract infections.

15 To determine the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations, the levels of polynucleotides and/or encoded polypeptides of the present invention in a sample are compared to the levels in a normal control of body tissues, cells, organs, or fluids. The normal control can include a pool of cells from a particular organ or tissue 20 or tissues and/or cells from throughout the body. Either the immunoassays described above or the nucleic acid assays described below can be used for such measurements.

Any observed difference between the sample and normal control can indicate the occurrence of disease or disorder. Typically, if the levels of the polynucleotides and the encoded polypeptides of the present invention are higher than 25 those found in the normal control, the results indicate the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations.

In addition, the present polynucleotides can be useful to diagnose the severity as well as the occurrence of cancer, tumor progression, hyperproliferative 30 growth, and/or accompanying biological or physical manifestations, including prostatic disorders. For example, the greater the difference observed in the sample versus the

normal control of the present polynucleotides or encoded polypeptides, the greater the severity of the disorder, in particular, when higher levels as compared to a normal control are observed.

The present polynucleotides, as shown in SEQ ID NO:1-339, were
5 expressed at higher levels in a prostate cancer cell line versus a normal prostate epithelial cell line.

Polynucleotide arrays provide a high throughput technique that can assay a large number of polynucleotide sequences in a sample. This technology can be used as a diagnostic and as a tool to test for differential expression to determine function of
10 an encoded protein.

To create arrays, polynucleotide probes are spotted onto a substrate in a two-dimensional matrix or array. Samples of polynucleotides can be labeled and then hybridized to the probes. Double stranded polynucleotides, comprising the labeled sample polynucleotides bound to probe polynucleotides, can be detected once the
15 unbound portion of the sample is washed away.

The probe polynucleotides can be spotted on substrates including glass, nitrocellulose, etc. The probes can be bound to the substrate by either covalent bonds or by non-specific interactions, such as hydrophobic interactions. The sample polynucleotides can be labeled using radioactive labels, fluorophors, etc.

20 Techniques for constructing arrays and methods of using these arrays are described in EP No. 0 799 897; PCT No. WO 97/29212; PCT No. WO 97/27317; EP No. 0 785 280; PCT No. WO 97/02357; U.S. Pat. No. 5,593,839; U.S. Pat. No. 5,578,832; EP No. 0 728 520; U.S. Pat. No. 5,599,695; EP No. 0 721 016; U.S. Pat. No. 5,556,752; PCT No. WO 95/22058; and U.S. Pat. No. 5,631,734.

25 Further, arrays can be used to examine differential expression of genes and can be used to determine gene function. For example, arrays of the instant polynucleotide sequences can be used to determine if any of the EST sequences are differentially expressed between normal cells and cancer cells, for example. High expression of a particular message in a cancer cell, which is not observed in a
30 corresponding normal cell, can indicate a cancer specific protein.

Differential Expression

The present invention also provides a method to identify abnormal or diseased tissue in a human. For polynucleotides corresponding to profiles of protein families as described above, the choice of tissue may be dictated by the putative biological function. The expression of a gene corresponding to a specific polynucleotide is compared between a first tissue that is suspected of being diseased and a second, normal tissue of the human. The normal tissue is any tissue of the human, especially those that express the polynucleotide-related gene including, but not limited to, brain, thymus, testis, heart, prostate, placenta, spleen, small intestine, skeletal muscle, pancreas, and the mucosal lining of the colon.

The polynucleotide-related genes in the two tissues are compared by any means known in the art. For example, the two genes are sequenced, and the sequence of the gene in the tissue suspected of being diseased is compared with the gene sequence in the normal tissue. The polynucleotide-related genes, or portions thereof, in the two tissues are amplified, for example using nucleotide primers based on the nucleotide sequence shown in the Sequence Listing, using the polymerase chain reaction. The amplified genes or portions of genes are hybridized to nucleotide probes selected from the same nucleotide sequence shown in the Sequence Listing. A difference in the nucleotide sequence of the polynucleotide-related gene in the tissue suspected of being diseased compared with the normal nucleotide sequence suggests a role of the polynucleotide-encoded proteins in the disease, and provides a lead for preparing a therapeutic agent. The nucleotide probes are labeled by a variety of methods, such as radiolabeling, biotinylation, or labeling with fluorescent or chemiluminescent tags, and detected by standard methods known in the art.

Alternatively, polynucleotide-related mRNA in the two tissues is compared. PolyA⁺ RNA is isolated from the two tissues as is known in the art. For example, one of skill in the art can readily determine differences in the size or amount of polynucleotide-related mRNA transcripts between the two tissues using Northern blots and nucleotide probes selected from the nucleotide sequence shown in the Sequence Listing. Increased or decreased expression of an polynucleotide-related mRNA in a tissue sample suspected of being diseased, compared with the expression of

the same polynucleotide-related mRNA in a normal tissue, suggests that the expressed protein has a role in the disease, and also provides a lead for preparing a therapeutic agent.

Any method for analyzing proteins is used to compare two polynucleotide-encoded proteins from matched samples. The sizes of the proteins in the two tissues are compared, for example, using antibodies of the present invention to detect polynucleotide-encoded proteins in Western blots of protein extracts from the two tissues. Other changes, such as expression levels and subcellular localization, can also be detected immunologically, using antibodies to the corresponding protein. A higher or lower level of polynucleotide-encoded protein expression in a tissue suspected of being diseased, compared with the same polynucleotide-encoded protein expression level in a normal tissue, is indicative that the expressed protein has a role in the disease, and provides another lead for preparing a therapeutic agent.

Similarly, comparison of polynucleotide gene sequences or of polynucleotide gene expression products, e.g., mRNA and protein, between a human tissue that is suspected of being diseased and a normal tissue of a human, are used to follow disease progression or remission in the human. Such comparisons of polynucleotide-related genes, mRNA, or protein are made as described above.

For example, increased or decreased expression of the polynucleotide-related gene in the tissue suspected of being neoplastic can indicate the presence of neoplastic cells in the tissue. The degree of increased expression of the polynucleotide gene in the neoplastic tissue relative to expression of the gene in normal tissue, or differences in the amount of increased expression of the polynucleotide gene in the neoplastic tissue over time, is used to assess the progression of the neoplasia in that tissue or to monitor the response of the neoplastic tissue to a therapeutic protocol over time. The expression pattern of any two cell types can be compared, such as low and high metastatic tumor cell lines, or cells from tissue which have and have not been exposed to a therapeutic agent.

Screening for Peptide Analogs and Antagonists

Polypeptides encoded by the instant polynucleotides and corresponding full length genes can be used to screen peptide libraries to identify binding partners, such as receptors, from among the encoded polypeptides.

5 Such binding partners can be useful in treating cancer, tumor progression, hyperproliferative cell growth, and/or accompanying biological or physical manifestations. For example, peptides or other compounds that are capable of binding or interacting with membrane-bound polypeptides encoded by one or more of SEQ ID NO:1-339, can be useful as a therapeutic. Also, peptides or other compounds capable of
10 altering the conformation of any of the encoded polypeptides by one or more of SEQ ID NO:1-339 can inhibit biological activity and be useful as a therapeutic.

A library of peptides may be synthesized following the methods disclosed in U.S. Pat. No. 5,010,175, and in PCT WO91/17823.

Peptide agonists or antagonists are screened using any available method,
15 such as signal transduction, antibody binding, receptor binding, mitogenic assays, chemotaxis assays, etc. The methods described herein are presently preferred. The assay conditions ideally should resemble the conditions under which the native activity is exhibited *in vivo*, that is, under physiologic pH, temperature, and ionic strength. Suitable agonists or antagonists will exhibit strong inhibition or enhancement of the
20 native activity at concentrations that do not cause toxic side effects in the subject. Agonists or antagonists that compete for binding to the native polypeptide may require concentrations equal to or greater than the native concentration, while inhibitors capable of binding irreversibly to the polypeptide may be added in concentrations on the order of the native concentration.

25 The end results of such screening and experimentation will be at least one novel polypeptide binding partner, such as a receptor, encoded by a cDNA polynucleotide or gene of the invention, and at least one peptide agonist or antagonist of the novel binding partner. Such agonists and antagonists can be used to modulate, enhance, or inhibit receptor function in cells to which the receptor is native, or in cells
30 that possess the receptor as a result of genetic engineering. Further, if the novel receptor shares biologically important characteristics with a known receptor,

information about agonist/antagonist binding may help in developing improved agonists/antagonists of the known receptor.

Therapeutics, whether polynucleotide or polypeptide or small molecule, can be tested, for example, in the mouse tumor assay described in Pei *et al.*, Mol. Endo. 11: 433-441 (1997).

Other models for testing polynucleotides, polypeptides, antibodies, or small molecules useful for treatment include: animal models and cell lines disclosed in Bosland, *Encyclopedia of Cancer*, Volume II, pages 1283 to 1296 (1997) by Academic Press. Other useful cell lines are described in Brothman, *Encyclopedia of Cancer*, Volume II, pages 1303 to 1313 (1997) by Academic Press

Pharmaceutical Compositions and Therapeutic Uses

Pharmaceutical compositions can comprise polypeptides, antibodies, or polynucleotides of the claimed invention. The pharmaceutical compositions will comprise a therapeutically effective amount of either polypeptides, antibodies, or polynucleotides of the claimed invention.

The term "therapeutically effective amount" as used herein refers to an amount of a therapeutic agent to treat, ameliorate, or prevent a desired disease or condition, or to exhibit a detectable therapeutic or preventative effect. The effect can be detected by, for example, chemical markers or antigen levels. Therapeutic effects also include reduction in physical symptoms, such as decreased body temperature. The precise effective amount for a subject will depend upon the subject's size and health, the nature and extent of the condition, and the therapeutics or combination of therapeutics selected for administration. Thus, it is not useful to specify an exact effective amount in advance. However, the effective amount for a given situation can be determined by routine experimentation and is within the judgment of the clinician. Specifically, the compositions of the present invention can be used to treat, ameliorate, modulate, or prevent cancer, tumor progression, hyperproliferative cell growth and/or accompanying biological or physical manifestations, including prostatic disorders.

For purposes of the present invention, an effective dose will be from about 0.01 mg/kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the polynucleotide, polypeptide or antibody compositions in the individual to which it is administered.

A pharmaceutical composition can also contain a pharmaceutically acceptable carrier. The term "pharmaceutically acceptable carrier" refers to a carrier for administration of a therapeutic agent, such as antibodies or a polypeptide, genes, and other therapeutic agents. The term refers to any pharmaceutical carrier that does not itself induce the production of antibodies harmful to the individual receiving the composition, and which may be administered without undue toxicity. Suitable carriers may be large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid copolymers, and inactive virus particles. Such carriers are well known to those of ordinary skill in the art.

Pharmaceutically acceptable salts can be used therein, for example, mineral acid salts such as hydrochlorides, hydrobromides, phosphates, sulfates, and the like; and the salts of organic acids such as acetates, propionates, malonates, benzoates, and the like. A thorough discussion of pharmaceutically acceptable excipients is available in *Remington's Pharmaceutical Sciences* (Mack Pub. Co., N.J. 1991).

Pharmaceutically acceptable carriers in therapeutic compositions may contain liquids such as water, saline, glycerol and ethanol. Additionally, auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, may be present in such vehicles. Typically, the therapeutic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid vehicles prior to injection may also be prepared. Liposomes are included within the definition of a pharmaceutically acceptable carrier.

Delivery Methods

Once formulated, the polynucleotide compositions of the invention can be (1) administered directly to the subject; (2) delivered ex vivo, to cells derived from the subject; or (3) delivered in vitro for expression of recombinant proteins.

Direct delivery of the compositions will generally be accomplished by injection, either subcutaneously, intraperitoneally, intravenously or intramuscularly, or delivered to the interstitial space of a tissue. The compositions can also be administered into a tumor or lesion. Other modes of administration include oral and pulmonary administration, suppositories, and transdermal applications, needles, and gene guns or hyposprays. Dosage treatment may be a single dose schedule or a multiple dose schedule.

Methods for the ex vivo delivery and reimplantation of transformed cells into a subject are known in the art and described in e.g., International Publication No. WO 93/14778. Examples of cells useful in ex vivo applications include, for example, stem cells, particularly hematopoietic, lymph cells, macrophages, dendritic cells, or tumor cells.

Generally, delivery of nucleic acids for both ex vivo and in vitro applications can be accomplished by, for example, dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion, electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei, all well known in the art.

If a polynucleotide-related gene correlates with a proliferative disorder, such as neoplasia, dysplasia, and hyperplasia, the disorder may be amenable to treatment by administration of a therapeutic agent based on the polynucleotide or corresponding polypeptide.

Preparation of antisense polypeptides is discussed above. Neoplasias that are treated with the antisense composition include, but are not limited to, cervical cancers, melanomas, colorectal adenocarcinomas, Wilms' tumor, retinoblastoma, sarcomas, myosarcomas, lung carcinomas, leukemias, such as chronic myelogenous leukemia, promyelocytic leukemia, monocytic leukemia, and myeloid leukemia, and lymphomas, such as histiocytic lymphoma. Proliferative disorders that are treated with the therapeutic composition include disorders such as anhydric hereditary ectodermal dysplasia, congenital alveolar dysplasia, epithelial dysplasia of the cervix, fibrous dysplasia of bone, and mammary dysplasia. Hyperplasias, for example, endometrial, adrenal, breast, prostate, or thyroid hyperplasias or pseudoepitheliomatous hyperplasia

of the skin, are treated with antisense therapeutic compositions. Even in disorders in which mutations in the corresponding gene are not implicated, downregulation or inhibition of gene expression can have therapeutic application. For example, decreasing gene expression can help to suppress tumors in which enhanced expression of the gene is implicated.

Both the dose of the antisense composition and the means of administration are determined based on the specific qualities of the therapeutic composition, the condition, age, and weight of the patient, the progression of the disease, and other relevant factors. Administration of the therapeutic antisense agents of the invention includes local or systemic administration, including injection, oral administration, particle gun or catheterized administration, and topical administration. Preferably, the therapeutic antisense composition contains an expression construct comprising a promoter and a polynucleotide segment of at least 12, 22, 25, 30, or 35 contiguous nucleotides of the antisense strand. Within the expression construct, the polynucleotide segment is located downstream from the promoter, and transcription of the polynucleotide segment initiates at the promoter.

Various methods are used to administer the therapeutic composition directly to a specific site in the body. For example, a small metastatic lesion is located and the therapeutic composition injected several times in several different locations within the body of tumor. Alternatively, arteries which serve a tumor are identified, and the therapeutic composition injected into such an artery, in order to deliver the composition directly into the tumor. A tumor that has a necrotic center is aspirated and the composition injected directly into the now empty center of the tumor. The antisense composition is directly administered to the surface of the tumor, for example, by topical application of the composition. X-ray imaging is used to assist in certain of the above delivery methods.

Receptor-mediated targeted delivery of therapeutic compositions containing an antisense polynucleotide, subgenomic polynucleotides, or antibodies to specific tissues is also used. Receptor-mediated DNA delivery techniques are described in, for example, Findeis *et al.*, *Trends in Biotechnol.* (1993) 11:202-205; Chiou *et al.*, (1994) *Gene Therapeutics: Methods And Applications Of Direct Gene Transfer* (J.A.

Wolff, ed.); Wu & Wu, *J. Biol. Chem.* (1988) 263:621-24; Wu *et al.*, *J. Biol. Chem.* (1994) 269:542-46; Zenke *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1990) 87:3655-59; Wu *et al.*, *J. Biol. Chem.* (1991) 266:339-42. Preferably, receptor-mediated targeted delivery of therapeutic compositions containing antibodies of the invention is used to
5 deliver the antibodies to specific tissue.

Therapeutic compositions containing antisense subgenomic polynucleotides are administered in a range of about 100 ng to about 200 mg of polynucleotides for local administration in a gene therapy protocol. Concentration ranges of about 500 ng to about 50 mg, about 1 μ g to about 2 mg, about 5 μ g to about
10 500 μ g, and about 20 μ g to about 100 μ g of polynucleotides can also be used during a gene therapy protocol. Factors such as method of action and efficacy of transformation and expression are considerations which will affect the dosage required for ultimate efficacy of the antisense subgenomic polynucleotides. Where greater expression is desired over a larger area of tissue, larger amounts of EST antisense subgenomic
15 polynucleotides or the same amounts readministered in a successive protocol of administrations, or several administrations to different adjacent or close tissue portions of, for example, a tumor site, may be required to effect a positive therapeutic outcome. In all cases, routine experimentation in clinical trials will determine specific ranges for optimal therapeutic effect. A more complete description of gene therapy vectors,
20 especially retroviral vectors, is contained in U.S. Serial No. 08/869,309, which is expressly incorporated herein, and in section G below.

For genes encoding polypeptides or proteins with anti-inflammatory activity, suitable use, doses, and administration are described in U.S. Patent No. 5,654,173, incorporated herein by reference. Therapeutic agents also include antibodies
25 to proteins and polypeptides, as described in U.S. Patent No. 5,654,173.

Gene Therapy

The therapeutic polynucleotides and polypeptides of the present invention may be utilized in gene delivery vehicles. The gene delivery vehicle may be of viral or non-viral origin (see generally, Jolly, *Cancer Gene Therapy* (1994) 1:51-64;
30 Kimura, *Human Gene Therapy* (1994) 5:845-852; Connelly, *Human Gene Therapy*

(1995) 1:185-193; and Kaplitt, *Nature Genetics* (1994) 6:148-153). Gene therapy vehicles for delivery of constructs including a coding sequence of a therapeutic of the invention can be administered either locally or systemically. These constructs can utilize viral or non-viral vector approaches. Expression of such coding sequences can be induced using endogenous mammalian or heterologous promoters. Expression of the coding sequence can be either constitutive or regulated.

The present invention can employ recombinant retroviruses which are constructed to carry or express a selected nucleic acid molecule of interest. Retrovirus vectors that can be employed include those described in EP 0 415 731; WO 90/07936; WO 94/03622; WO 93/25698; WO 93/25234; U.S. Patent No. 5, 219,740; WO 93/11230; WO 93/10218; Vile and Hart, *Cancer Res.* (1993) 53:3860-3864; Vile and Hart, *Cancer Res.* (1993) 53:962-967; Ram et al., *Cancer Res.* (1993) 53:83-88; Takamiya et al., *J. Neurosci. Res.* (1992) 33:493-503; Baba et al., *J. Neurosurg.* (1993) 79:729-735; U.S. Patent no. 4,777,127; GB Patent No. 2,200,651; and EP 0 345 242. Preferred recombinant retroviruses include those described in WO 91/02805.

Packaging cell lines suitable for use with the above-described retroviral vector constructs may be readily prepared (see PCT publications WO 95/30763 and WO 92/05266), and used to create producer cell lines (also termed vector cell lines) for the production of recombinant vector particles. Within particularly preferred embodiments of the invention, packaging cell lines are made from human (such as HT1080 cells) or mink parent cell lines, thereby allowing production of recombinant retroviruses that can survive inactivation in human serum.

The present invention also employs alphavirus-based vectors that can function as gene delivery vehicles. Such vectors can be constructed from a wide variety of alphaviruses, including, for example, Sindbis virus vectors, Semliki forest virus (ATCC VR-67; ATCC VR-1247), Ross River virus (ATCC VR-373; ATCC VR-1246) and Venezuelan equine encephalitis virus (ATCC VR-923; ATCC VR-1250; ATCC VR 1249; ATCC VR-532). Representative examples of such vector systems include those described in U.S. Patent Nos. 5,091,309; 5,217,879; and 5,185,440; and PCT Publication Nos. WO 92/10578; WO 94/21792; WO 95/27069; WO 95/27044; and WO 95/07994.

Gene delivery vehicles of the present invention can also employ parvovirus such as adeno-associated virus (AAV) vectors. Representative examples include the AAV vectors disclosed by Srivastava in WO 93/09239, Samulski et al., *J. Vir.* (1989) 63:3822-3828; Mendelson et al., *Virol.* (1988) 166:154-165; and Flotte et al., *PNAS* (1993) 90:10613-10617.

Representative examples of adenoviral vectors include those described by Berkner, *Biotechniques* (1988) 6:616-627; Rosenfeld et al., *Science* (1991) 252:431-434; WO 93/19191; Kolls et al., *PNAS* (1994) 91:215-219; Kass-Eisler et al., *PNAS* (1993) 90:11498-11502; Guzman et al., *Circulation* (1993) 88:2838-2848; Guzman et al., *Cir. Res.* (1993) 73:1202-1207; Zabner et al., *Cell* (1993) 75:207-216; Li et al., *Hum. Gene Ther.* (1993) 4:403-409; Cailaud et al., *Eur. J. Neurosci.* (1993) 5:1287-1291; Vincent et al., *Nat. Genet.* (1993) 5:130-134; Jaffe et al., *Nat. Genet.* (1992) 1:372-378; and Levrero et al., *Gene* (1991) 101:195-202. Exemplary adenoviral gene therapy vectors employable in this invention also include those described in WO 94/12649, WO 93/03769; WO 93/19191; WO 94/28938; WO 95/11984 and WO 95/00655. Administration of DNA linked to killed adenovirus as described in Curiel, *Hum. Gene Ther.* (1992) 3:147-154 may be employed.

Other gene delivery vehicles and methods may be employed, including polycationic condensed DNA linked or unlinked to killed adenovirus alone, for example Curiel, *Hum. Gene Ther.* (1992) 3:147-154; ligand linked DNA, for example see Wu, *J. Biol. Chem.* (1989) 264:16985-16987; eukaryotic cell delivery vehicles cells, for example see U.S. Serial No. 08/240,030, filed May 9, 1994, and U.S. Serial No. 08/404,796; deposition of photopolymerized hydrogel materials; hand-held gene transfer particle gun, as described in U.S. Patent No. 5,149,655; ionizing radiation as described in U.S. Patent No. 5,206,152 and in WO92/11033; nucleic charge neutralization or fusion with cell membranes. Additional approaches are described in Philip, *Mol. Cell Biol.* (1994) 14:2411-2418, and in Woffendin, *Proc. Natl. Acad. Sci.* (1994) 91:1581-1585.

Naked DNA may also be employed. Exemplary naked DNA introduction methods are described in WO 90/11092 and U.S. Patent No. 5,580,859.

Further non-viral delivery suitable for use includes mechanical delivery systems such as the approach described in Woffendin *et al.*, *Proc. Natl. Acad. Sci. USA* (1994) 91(24):11581-11585.

Computer-Related Embodiments

5 In general, a library of polynucleotides is a collection of sequence information, which information is provided in either biochemical form (*e.g.*, as a collection of polynucleotide molecules), or in electronic form (*e.g.*, as a collection of polynucleotide sequences stored in a computer-readable form, as in a computer system and/or as part of a computer program). The sequence information of the
10 polynucleotides can be used in a variety of ways, *e.g.*, as a resource for gene discovery, as a representation of sequences expressed in a selected cell type (*e.g.*, cell type markers), and/or as markers of a given disease or disease state. In general, a disease marker is a representation of a gene product that is present in all cells affected by disease either at an increased or decreased level relative to a normal cell (*e.g.*, a cell of
15 the same or similar type that is not substantially affected by disease).

The nucleotide sequence information of the library can be embodied in any suitable form, *e.g.*, electronic or biochemical forms. For example, a library of sequence information embodied in electronic form comprises an accessible computer data file (or, in biochemical form, a collection of nucleic acid molecules) that contains
20 the representative nucleotide sequences of genes that are differentially expressed (*e.g.*, overexpressed or underexpressed) as between, for example, a cancerous cell and a normal cell. Biochemical embodiments of the library include a collection of nucleic acids that have the sequences of the genes in the library, where the nucleic acids can correspond to the entire gene in the library or to a fragment thereof, as described in
25 greater detail below.

The polynucleotide libraries of the subject invention generally comprise sequence information of a plurality of polynucleotide sequences, where at least one of the polynucleotides has a sequence of any of SEQ ID NOs:1-339. By plurality is meant at least 2, usually at least 3 and can include up to all of SEQ ID NOs:1-339. The length
30 and number of polynucleotides in the library will vary with the nature of the library,

e.g., if the library is an oligonucleotide array, a cDNA array, a computer database of the sequence information, etc.

Where the library is an electronic library, the nucleic acid sequence information can be present in a variety of media. "Media" refers to a manufacture, other than an isolated nucleic acid molecule, that contains the sequence information of the present invention. Such a manufacture provides the genome sequence or a subset thereof in a form that can be examined by means not directly applicable to the sequence as it exists in a nucleic acid. For example, the nucleotide sequence of the present invention, *e.g.*, the nucleic acid sequences of any of the polynucleotides of SEQ ID NOs:1-339, can be recorded on computer readable media, *e.g.*, any medium that can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media, such as a floppy disc, a hard disc storage medium, and a magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media. One of skill in the art can readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising a recording of the present sequence information. "Recorded" refers to a process for storing information on computer readable medium, using any such methods as known in the art. Any convenient data storage structure can be chosen, based on the means used to access the stored information. A variety of data processor programs and formats can be used for storage, *e.g.*, word processing text file, database format, *etc.* In addition to the sequence information, electronic versions of the libraries of the invention can be provided in conjunction or connection with other computer-readable information and/or other types of computer-readable files (*e.g.*, searchable files, executable files, *etc.*, including, but not limited to, for example, search program software, *etc.*).

By providing the nucleotide sequence in computer readable form, the information can be accessed for a variety of purposes. Computer software to access sequence information is publicly available. For example, the BLAST (Altschul et al., *supra.*) and BLAZE (Brutlag et al. *Comp. Chem.* (1993) 17:203) search algorithms on a Sybase system can be used to identify open reading frames (ORFs) within the genome that contain homology to ORFs from other organisms.

As used herein, "a computer-based system" refers to the hardware means, software means, and data storage means used to analyze the nucleotide sequence information of the present invention. The minimum hardware of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means, and data storage means. A skilled artisan can readily appreciate that any one of the currently available computer-based system are suitable for use in the present invention. The data storage means can comprise any manufacture comprising a recording of the present sequence information as described above, or a memory access means that can access such a manufacture.

10 "Search means" refers to one or more programs implemented on the computer-based system, to compare a target sequence or target structural motif, or expression levels of a polynucleotide in a sample, with the stored sequence information. Search means can be used to identify fragments or regions of the genome that match a particular target sequence or target motif. A variety of known algorithms are publicly
15 known and commercially available, *e.g.*, MacPattern (EMBL), BLASTN and BLASTX (NCBI). A "target sequence" can be any polynucleotide or amino acid sequence of six or more contiguous nucleotides or two or more amino acids, preferably from about 10 to 100 amino acids or from about 30 to 300 nt. A variety of comparing means can be used to accomplish comparison of sequence information from a sample (*e.g.*, to analyze
20 target sequences, target motifs, or relative expression levels) with the data storage means. A skilled artisan can readily recognize that any one of the publicly available homology search programs can be used as the search means for the computer based systems of the present invention to accomplish comparison of target sequences and motifs. Computer programs to analyze expression levels in a sample and in controls are
25 also known in the art.

A "target structural motif," or "target motif," refers to any rationally selected sequence or combination of sequences in which the sequence(s) are chosen based on a three-dimensional configuration that is formed upon the folding of the target motif, or on consensus sequences of regulatory or active sites. There are a variety of
30 target motifs known in the art. Protein target motifs include, but are not limited to, enzyme active sites and signal sequences. Nucleic acid target motifs include, but are

not limited to, hairpin structures, promoter sequences and other expression elements such as binding sites for transcription factors.

A variety of structural formats for the input and output means can be used to input and output the information in the computer-based systems of the present invention. One format for an output means ranks the relative expression levels of different polynucleotides. Such presentation provides a skilled artisan with a ranking of relative expression levels to determine a gene expression profile..

As discussed above, the "library" of the invention also encompasses biochemical libraries of the polynucleotides of SEQ ID NOs:1-339, *e.g.*, collections of nucleic acids representing the provided polynucleotides. The biochemical libraries can take a variety of forms, *e.g.*, a solution of cDNAs, a pattern of probe nucleic acids stably associated with a surface of a solid support (*i.e.*, an array) and the like. Of particular interest are nucleic acid arrays in which one or more of SEQ ID NOs:1-339 is represented on the array. By array is meant a an article of manufacture that has at least a substrate with at least two distinct nucleic acid targets on one of its surfaces, where the number of distinct nucleic acids can be considerably higher, typically being at least 10 nt, usually at least 20 nt and often at least 25 nt. A variety of different array formats have been developed and are known to those of skill in the art. The arrays of the subject invention find use in a variety of applications, including gene expression analysis, drug screening, mutation analysis and the like, as disclosed in the above-listed exemplary patent documents.

In addition to the above nucleic acid libraries, analogous libraries of polypeptides are also provided, where the where the polypeptides of the library will represent at least a portion of the polypeptides encoded by SEQ ID NOs:1-339.

The present invention will now be illustrated by reference to the following examples which set forth particularly advantageous embodiments. However, it should be noted that these embodiments are illustrative and are not to be construed as restricting the invention in any way.

EXAMPLES

EXAMPLE 1

ISOLATION OF THE POLYNUCLEOTIDES

cDNA libraries were prepared from PrEC, normal human prostate
5 epithelial cells, and LNCaP, a cell line derived from human lymph node metastasized prostate cancer. PrEC cells are available from Clonetics, San Diego, California, U.S.A. LNCaP cells are available from the ATCC, Manassas, Virginia, U.S.A.

Using a PCR technique and reagents available from Clontech, Palo Alto, California, USA (CLONTECH PCR-Select™), mRNA up-regulated in LNCaP was
10 captured and amplified. The captured polynucleotide inserts were inserted in the pCR2.1 vector, available from Invitrogen, Carlsbad, California, U.S.A. The vectors with the inserts were transformed into *E. coli* cells.

EXAMPLE 2

CONFIRMATION OF DIFFERENTIAL DISPLAY

15 Ten clones were chosen at random, and up-regulation of the sequences of these clone inserts in LNCaP versus PrEC cells was confirmed by Northern blot. Dot blots were performed on 168 clones and up-regulation was confirmed.

Further, sequencing of the clones showed that prostate specific antigen (PSA) and prostate specific membrane antigen (PSMA) sequences were isolated by the
20 process described in Example 1. A good correlation between increased serum PSA levels and prostate tumors has been observed. PSMA, a cell surface antigen, is another observed marker for prostate cancer. See Bosland, Encyclopedia of Cancer, Volume II, pages 1283-1296 (1997), Academic Press. Thus, the data confirm that up-regulated mRNA characteristic of gene expression in prostate cancer was cloned by the method of
25 Example 1.

EXAMPLE 3

POLYNUCLEOTIDE SEQUENCES

The sequence results are shown in SEQ ID NO:1-339. For the sequencing experiments, each clone was named SL-1 to SL-209. Inserts from some of the clones were sequenced more than once. Each sequence was designated a unique combination of two names. This unique combination is shown in Table 1 in columns 2 and 3, denoted as "Sequence Name" and "Other Seq Name."

Table 1 indicates all the sequences that correspond to each clone. Thus, all the sequences corresponding to clone SL-3, for example, are grouped together in Table 1.

Clones also were assigned cluster numbers. See column 4 of Table 1. Clones with the same cluster number generally comprise sequence derived from the same mRNA transcripts.

The last column of Table 1 indicates the nearest neighbor as determined by an alignment to sequences in a publicly available database.

A consensus for the sequence of each clone can be constructed by aligning the corresponding sequences or reverse complements thereof. Table 1 lists the names of all the sequences that correspond to each clone, and Table 2 shows the specific sequence that corresponds to each unique combination of Sequence Name and/or "Other Seq. Name."

The entire insert of some clones may not be represented by the sequences presented in Table 2. For example, the 5' and 3' ends of a clone insert may have been sequenced, but the sequences do not overlap. Additional sequence corresponding to the clone insert can be isolated and determined by constructing probes or primers from the sequences presented in Table 2 and a library of mRNA or cDNA from a prostate cell or prostate cancer cell line using the methods described above.

EXAMPLE 4

RESULTS OF PUBLIC DATABASE SEARCH

Both the nucleotide sequence and translations of masked sequences shown in the Sequence Listing were aligned with individual sequences that were publicly available. Similarity with individual sequences is used to determine the activity of the polypeptides encoded by genes corresponding to the sequences referred to in Table 2.

The sequences in SEQ ID NO:1-333 first were masked to remove the pCR2.1 vector sequences. Masking was performed by aligning the pCR2.1 sequences with each of SEQ ID NO:1-333 using the BLASTN program. Any sequence that produced an alignment with a score of less than 0.1 was masked.

A BLASTN vs. Genbank search was performed using the masked sequences with search parameters of greater than 99% overlap, 99% identity, and a p value of less than 1×10^{-40} and this resulted in discard of sequences. Sequences from this search also were discarded if the inclusive parameters were met, but the sequence was ribosomal or vector-derived.

The resulting sequences from the previous search were classified into three groups (1, 2 and 3 below) and searched in a BLASTX vs. NRP (non-redundant proteins) database search: (1) unknown (no hits in the Genbank search), (2) weak similarity (greater than 45% identity and p value of less than 1×10^{-5}), and (3) high similarity (greater than 60% overlap, greater than 80% identity, and p value less than 1×10^{-5}). This search resulted in discard of sequences as having greater than 99% overlap, greater than 99% identity, and p value of less than 1×10^{-40} .

The remaining sequences were classified as unknown (no hits), weak similarity, and high similarity (parameters as above). Two searches were performed on this set of sequences. First, a BLAST vs. EST database search resulted in discard of sequences with greater than 99% overlap, greater than 99% similarity and a p value of less than 1×10^{-40} ; sequences with a p value of less than 1×10^{-65} when compared to a database sequence of human origin were also excluded. Second, a BLASTN vs. Patent

GeneSeq database resulted in discard of sequences with greater than 99% identity; p value less than 1×10^{-40} ; greater than 99% overlap.

The masked sequences were translated in all six reading frames to determine the best alignment with the individual sequences. These amino acid sequences and nucleotide sequences are referred, generally, as query sequences, which are aligned with the individual sequences.

Query and individual sequences were aligned using the BLAST programs, available over the world wide web.

Table 2 shows the results of the alignments. Table 2 refers to each sequence by its Sequence Name and/or "Other Seq. Name" and includes the accession numbers and descriptions of nearest neighbors from the Genbank and Non-Redundant Protein searches.

The activity of the polypeptide encoded by the sequences referred to in Table 2 is expected to be the same or similar to the nearest neighbor reported in Table 2. The accession number of the nearest neighbor is reported, providing a reference to the activities exhibited by the nearest neighbor. The search program and database used for the alignment also are indicated as well as a calculation of the p value.

Full length sequences or fragments of the polynucleotide sequences of the nearest neighbors can be used as probes and primers to identify and isolate the full length sequence corresponding to sequence referred to in Table 2. Although full length sequences can be obtained from the cell lines described above, the nearest neighbors can indicate a tissue or cell type to be used to construct a library for the full-length sequences of those referred to in Table 2.

The sequences referred to in Table 2 and the translations thereof may be human homologs of known genes of other species or novel allelic variants of known human genes. In such cases, these new human sequences may be suitable as diagnostics, prognostics, or therapeutics. As diagnostics, the human sequences exhibit greater specificity in detecting and differentiating human cell lines and types than homologs of other species. The human polypeptides are less likely to be immunogenic when administered to humans than homologs from other species. Further, on

administration to humans, the encoded polypeptides can show greater specificity or can be better regulated by other human proteins than are homologs from other species.

In the preferred embodiments of the invention, the sequences shown in SEQ ID NO:1-339 consisting of the unmasked regions should be considered as the source of probes and primers, as these sequences are most representative of the distinguishing portions of these polynucleotides.

Generally, the masking itself does not influence the search results as shown in Table 2, except to eliminate multiple "hits" based on similarity to repetitive regions common to more than one polypeptide.

10

EXAMPLE 5

ANALYSIS OF CLONES SL-5, SL-9, SL-68, AND SL-173

Clone SL-5 (SEQ ID NO:14 and 334)

By Northern Blot, a 4.1 kb band was observed in expressed in normal prostate, testis, and lymphoblastic leukemia. It was also expressed in the cell lines LNCaP, and MDA PCa 2A and 2B (metastatic prostate cells into bone, androgen sensitive). Additional sequence corresponding to SEQ ID NO:14 is disclosed in SEQ ID NO:334.

Expression of SL-5 was investigated in normal and tumor tissues using immunohistochemistry. Antibody was prepared using two sequences from clone SL-5: H₂N-CGPRLPSFPCPTHEPSTGQLSK-CONH₂ and H₂N-CKDSQGLSDFKRNSRTTTR-RSYKCCONH₂. Using polyclonal antibodies raised against a mixture of these polypeptides, immunohistochemistry (IHC) was performed on a variety of tumor tissues and corresponding normal tissue. The methods used were those described for the Manual IHC Protocol using BioGenex Reagents and Zymed AEC Solution, as known in the art. As shown in Figure 3, SL-5 was detected in the following tumor tissue: adrenal, ovary, breast, colon, prostate, uterus, cervix, kidney, pancreas, liver, stomach, lymphoma, seminoma, thyroid, melanoma, basal cell carcinoma, and other tumor tissues. Where comparative normal tissue was available, expression in the

corresponding normal tissue was lower than in the tumor tissue. Thus, SL-5 is a useful marker for cancer tissue including prostate.

Clone SL-9 (SEQ ID NO:18)

By Northern Blot, sequences from SL-9 were specifically expressed in
5 normal spleen and normal peripheral blood leukocyte. Expression of the SL-9 sequences was observed also in promyelocytic leukemia HL-60, chronic myelogenous leukemia K-562, lymphoblastic leukemia MOLT-4, Burkitt's lymphoma, and Raji cancer cell lines by Northern Blot.

Clone SL-173 (SEQ ID NO:153 and 154)

10 By Northern Blot, SL173 was found in every cancer cell line tested. Sequence from SL-173 has similarity to and may be a human homologue of the rat tumor transforming gene, which was found in the pituitary and described in Pei *et al.*, Mol. Endo. 11: 433-441 (1997) and Pei, J. Biol. Chem. 273(9): 5219-5225 (1998). When the rat tumor transforming gene was injected in NIH3T3 cells, the cells became
15 transformed and were able to form a tumor when injected into mice. (Pei *et al.*, Mol. Endo. supra).

Clone SL-68 (SEQ ID NO:218 and 219)

Two transcripts, 2.6kb and 4.3kb, were observed in normal spleen, thymus and peripheral blood leukocytes, as well as in promyelocytic leukemia, chronic
20 myelogenous leukemia and lymphoblastic leukemia. The 4.3kb transcript was seen in normal testis, colon, Hela cell S3, colorectal adenocarcinoma and melanoma. The 2.6kb band was found in the following prostate cell lines: PC-3 (metastatic to bone, androgen insensitive); DU-145 (metastatic to brain, androgen insensitive); FFpz (primary cells derived from normal prostate epithelium); Ffca (primary cells derived
25 from Gleason Grade 3 prostate cancer epithelium); and WO-CA (primary cells derived from Gleason Grade 4 prostate cancer epithelium). However, higher expression was observed in LNCaP, MDA PCa 2A, HPV-7 and HPV-10. A 9.5kb transcript was also observed in MDA PCa 2A and 2B. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:335.

Clone SL69 (SEQ ID NO:220 and 221)

A weak 2.6kb band was observed in normal testis as well as in chronic myelogenous leukemia and lymphoblastic leukemia. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:336.

5

Clone SL86 (SEQ ID NO:242 and 243)

The sequence was expressed in normal prostate (2.7kb and 1.1kb) and testis (1.1kb). Low expression was observed in a cancer cell line blot using the cell lines described above. 1.1kb and 2.7kb transcripts were observed in the cell lines LNCaP, and MDA PCa 2a and 2b (metastatic prostate cells into bone, androgen sensitive), and weak 1.1kb transcript was seen in HPV-7 (immortalized normal prostate cells) and HPV-10 (immortalized prostate cancer cells). Additional sequence corresponding to this clone is disclosed in SEQ ID NO:337.

15 Clone SL195 (SEQ ID NO:288 and 289)

The sequence was expressed in normal prostate as a 1.9kb transcript, and the same transcript also observed in all cell lines in the cancer cell line blot described above. It was more heavily expressed in HeLa cell S3 and chronic myelogenous leukemia, and was expressed in all prostate cell lines. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:338.

20

Clone SL197 (SEQ ID NO:292 and 293)

Two transcripts, 2.4kb and 4kb, were observed in normal prostate and testis. Two very weak 2.4kb signals were observed in HeLa cell S3 and chronic myelogenous leukemia. The 2.4kb transcript was expressed in all prostate cell lines. A 4kb transcript was found in LNCaP, MDA PCa 2A and 2B. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:339.

25

Those skilled in the art will recognize, or be able to ascertain, using not more than routine experimentation, many equivalents to the specific embodiments of

30

the invention described herein. Such specific embodiments and equivalents are intended to be encompassed by the following claims.

All patents, published patent applications and publications cited herein are incorporated by reference as if set forth fully herein.

TABLE 1

Clone #	Sequence Name	Other Seq Name	Clone # Cluster #	Nearest Neighbor If Available
SL-001	SL001 SL001M13	19sl1	SL-001	S60754 (VNTR locus DXZ4)
SL-002	SL002	20sl2	SL-002	L07935 HUMVNTRA
SL-003	SL003 SL003 SL003 SL003 SL003	21sl3 35-sl3-1m13 35-sl3-1t7 37-sl3-1m13 39-sl3-1m13	SL-003	AB006625 - KIAA0287 gene
SL-004	SL004 SL004M13	22sl4	SL-004	
SL-005	SL005 SL005	23sl5 30sl11b	SL-005	
SL-006	SL006 SL006M13	24sl6	SL-006	cosmid genomic clone
SL-007	SL007 SL007 SL007 SL007 SL007 SL007 SL007	25sl7 28-sl7-1m13 28-sl7-1t7 30-sl7-1m13 30-sl7-1t7 32-sl7-1m13 32-sl7-1t7	SL-003	AB006625- KIAA0287
SL-008	SL008	26sl8	SL-008	HUMP65 E=9e-62 L-plastin, Phosphoprotein (p65)
SL-009	SL009 SL009M13	27sl9		
SL-010	SL010	28sl10	SL-005	
SL-011	SL011	29sl11a	SL-011	HSU10685 - MAGE-10 Gene
SL-012	SL012	31sl12	SL-011	HSU10685 - MAGE-10 Gene
SL-013	SL013	32sl13		
SL-015	SL015 SL015 SL015 SL015	34sl15 46-sl15-2m13 47-sl15-2m13 47-sl15-2t7	SL-015	HSU90336 - PEG3 mRNA HSMRNAEN - Enkephalinase
SL-016	SL016 SL016 SL016 SL016 SL016 SL016	10-sl16-1m13 10-sl16-1t7 11-sl16-1m13 18-sl16-2m13 18-sl16-2t7 19-sl16-2m13	SL-016	

TABLE 1

	SL016 19-sl16-2t7		
	SL016 20-sl16-2m13		
	SL016 20-sl16-2t7		
	SL016 35sl16		
	SL016 9-sl16-1t7		
SL-017	SL017 36sl17	SL-017	HUMORF01 - KIAA0101 gene
SL-028	SL028m13 B1	SL-028	
	SL028t7 B1		
SL-029	SL029m13 WE97.C1.M13	SL-029	
	SL029t7 WE97.C1.T7		
SL-032	SL032m13 WE97.D1.M13	SL-032	HSTPI1G TPI1 gene
	SL032t7 WE97.D1.T7		for triosephosphate isomerase.
SL-036	SL036m13 WE97.E1.M13	SL-036	HSU81599 homeodomain protein
	SL036t7 WE97.E1.T7		HOXB13
SL-037	SL037m13 C1	SL-005	
	SL037m13 WE97.F1.M13		
	SL037t7 C1		
SL-040	SL040m13 D1	SL-040	
	SL040t7 D1		
SL-041	SL041m13 E1	SL-016	
	SL041m13 WE97.H1.M13		
	SL041t7 E1		
	SL041t7 WE97.H1.T7		
SL-042	SL042m13 WE97.A2.M13	SL-008	HUMP65 phosphoprotein (p65)
	SL042t7 WE97.A2.T7		HUMPLASTA L-plastin gene
SL-044	SL044m13 WE97.B2.M13	SL-016	
	SL044t7 WE97.B2.T7		
SL-045	SL045m13 WE97.C2.M13	SL-045	
	SL045t7 WE97.C2.T7		genomic DNA
SL-046	SL046m13 WE97.D2.M13	SL-046	
	SL046t7 WE97.D2.T7		
SL-047	SL047m13 WE97.E2.M13	SL-047	
	SL047t7 WE97.E2.T7		
SL-050	SL050m13 WE97.F2.M13	SL-050	
	SL050t7 WE97.F2.T7		
SL-051	SL051m13 WE97.G2.M13	SL-051	
	SL051t7 WE97.G2.T7		
SL-054	SL054m13 WE97.H2.M13	SL-054	
	SL054t7 WE97.H2.T7		
SL-055	SL055m13 F1	SL-050	
	SL055t7 F1		
	SL055t7 WE97.A3.T7		

TABLE 1

SL-057	SL057m13 WE97.C3.M13 SL057t7 WE97.C3.T7	SL-057	
SL-058	SL058m13 WE97.D3.M13 SL058t7 WE97.D3.T7	SL-058	HSLRPR1GN leucine-rich primary response protein 1.
SL-061	SL061m13 WE97.E3.M13 SL061t7 WE97.E3.T7	SL-028	
SL-062	SL062m13 WE97.F3.M13 SL062t7 WE97.F3.T7	SL-028	
SL-064	SL064m13 WE97.G3.M13 SL064t7 WE97.G3.T7	SL-064	
SL-066	SL066m13 WE97.H3.M13 SL066t7 WE97.H3.T7	SL-016	
SL-067	SL067m13 H1 SL067t7 H1 SL067t7 WE97.A4.T7	SL-067	HUMKIAAP - KIAA0095 gene
SL-068	SL068m13 WE97.B4.M13 SL068t7 WE97.B4.T7	SL-068	
SL-069	SL069m13 WE97.C4.M13 SL069t7 WE97.C4.T7	SL-069	
SL-071	SL071m13 WE97.D4.M13 SL071t7 WE97.D4.T7	SL-071	
SL-072	SL072m13 WE97.E4.M13 SL072t7 WE97.E4.T7	SL-015	HSU90336 Human PEG3 mRNA AB006625 KIAA0287
SL-074	SL074m13 WE97.F4.M13 SL074t7 WE97.F4.T7	SL-074	
SL-075	SL075m13 WE97.G4.M13 SL075t7 WE97.G4.T7	SL-075	
SL-076	SL076m13 WE97.H4.M13 SL076t7 WE97.H4.T7	SL-076	
SL-077	SL077m13 WE97.A5.M13 SL077t7 WE97.A5.T7	SL-077	
SL-078	SL078m13 A2 SL078m13 WE97.B5.M13 SL078t7 A2	SL-016	
SL-081	SL081m13 WE97.E5.M13 SL081t7 WE97.E5.T7	SL-003	BAC clone (with Alu) AB006625 - KIAA0287 gene
SL-083	SL083m13 WE97.G5.M13 SL083t7 WE97.G5.T7	SL-083	
SL-084	SL084m13 WE97.H5.M13 SL084t7 WE97.H5.T7	SL-084	(HS295C6 Human DNA sequence)

TABLE 1

SL-085	SL085m13 WE97.A6.M13	SL-085	
SL-086	SL086m13 WE97.B6.M13	SL-086	
	SL086t7 WE97.B6.T7		
SL-087	SL087m13 WE97.C6.M13	SL-087	EST and Mus musculus
	SL087t7 WE97.C6.T7		ras-GTPase-activating protein
SL-088	SL088m13 WE97.D6.M13	SL-015	HSU90336 Human PEG3
	SL088t7 WE97.D6.T7		& AB006625 - KIAA0287 gene
SL-089	SL089m13 WE97.E6.M13	SL-089	
	SL089t7 WE97.E6.T7		
SL-090	SL090m13 D2	SL-090	
	SL090t7 D2		
SL-091	SL091m13 WE97.G6.M13	SL-091	
	SL091t7 WE97.G6.T7		
SL-092	SL092m13 WE97.H6.M13	SL-092	HUMPRKACB testis-specific
	SL092t7 WE97.H6.T7		cAMP-dependent protein kinase
			catalytic subunit (C-beta isoform)
SL-093	SL093m13 E2	SL-008	HUMLPLSTN2 L-plastin gene
	SL093t7 E2		
SL-094	SL094m13 WE97.B7.M13	SL-094	
	SL094t7 WE97.B7.T7		
SL-095	SL095m13 WE97.C7.M13	SL-003	AB006625 - KIAA0287
	SL095t7 WE97.C7.T7		
SL-096	SL096m13 WE97.D7.M13	SL-096	
	SL096t7 WE97.D7.T7		
SL-097	SL097m13	SL-071	
	SL097t7		
SL-098	SL098m13	SL-098	
	SL098t7		
SL-099	SL099m13	SL-016	
	SL099t7		
SL-100	SL100m13 F2	SL-085	SL100m13 Alu - 2e-71
	SL100m13		
	SL100t7 F2		
	SL100t7		
SL-102	SL102m13	SL-102	HSRPL32 ribosomal protein L32
	SL102t7		
SL-103	SL103m13	SL-103	
	SL103t7		
SL-105	SL105m13	SL-105	
	SL105t7		
SL-106	SL106m13	SL-106	
	SL106t7		
SL-107	SL107m13	SL-016?	SL107m13 -Alu - 2e-78
	SL107t7		
SL-110	SL110m13	SL-003	AB006625- KIAA0287 gene

TABLE 1

	SL110t7		
SL-111	SL111m13 SL111t7	SL-111	
SL-112	SL112m13 SL112t7	SL-112	
SL-115	SL115m13 SL115t7	SL-115	D86322 - calmegin
SL-116	SL116m13 SL116t7	SL-116	
SL-117	SL117m13 SL117t7	SL-117	HUMNUMB23 = HUMNPM Human nucleolar protein (B23) or Human nucleophosmin
SL-118	SL118m13 SL118t7	SL-118	
SL-119	SL119m13 SL119t7	SL-119	
SL-120	SL120m13 SL120t7	SL-046	
SL-121	SL121m13 SL121t7	SL-016	
SL-122	SL122m13 SL122t7	SL-122	HUMPRKACB testis-specific cAMP-dependent protein kinase catalytic subunit (C-beta isoform)
SL-124	SL124m13 SL124t7	SL-016	
SL-125	SL125m13 SL125t7	SL-125	HSU19145 GAGE-4 (US 5,648,226)
SL-127	SL127m13 SL127t7	SL-127	
SL-128	SL128m13 SL128t7	SL-005	
SL-130	SL130m13 SL130t7	SL-130	
SL-132	SL132m13 SL132t7	SL-011	HSU10685 MAGE-10 gene (US 5,612,201)
SL-134	SL134m13 SL134t7	SL-134	HSC70P Hsc 70 pseudogene (Heat Shock protein)
SL-135	SL135m13 SL135t7	SL-135	
SL-138	SL138m13 SL138t7	SL-051	
SL-139	SL139m13 SL139t7	SL-139	Homo sapiens cosmid
SL-142	SL142m13 SL142t7	SL-005	

TABLE 1

SL-143	SL143m13 SL143t7	SL-143	Genomic clone AC003978
SL-144	SL144m13 SL144t7	SL-144	E= 3-81
SL-145	SL145m13	SL-003	AB006625- KIAA0287 gene
SL-146	SL146m13 WE97.E7.M13 SL146t7 WE97.E7.T7	SL-146	
SL-147	SL147m13 G2 SL147m13 WE97.F7.M13 SL147t7 G2	SL-147	(1) HSCDC2R Human cell cycle control gene CDC2 (2) HSU29091 selenium-binding
SL-148	SL148m13 WE97.G7.M13 SL148t7 WE97.G7.T7	SL-016	
SL-149	SL149m13 H2 SL149t7 H2	SL-149	
SL-150	SL150m13 A3 SL150t7 A3	SL-150	"Human DNA sequence"
SL-151	SL151m13 WE97.B8.M13 SL151t7 WE97.B8.T7	SL-151	Genomic frag
SL-152	SL152m13 WE97.C8.M13 SL152t7 WE97.C8.T7	SL-152	
SL-153	SL153m13 WE97.D8.M13 SL153t7 WE97.D8.T7	SL-153	
SL-154	SL154t7 WE97.E8.T7	SL-154	HUMPAR5R - PAR-5 mRNA
SL-155	SL155m13 WE97.F8.M13 SL155t7 WE97.F8.T7	SL-028	SL155m13 - EST only in Mouse
SL-156	SL156m13 WE97.G8.M13 SL156t7 WE97.G8.T7	SL-016	
SL-157	SL157m13 WE97.H8.M13 SL157t7 WE97.H8.T7	SL-157	
SL-158	SL158m13 WE97.A9.M13 SL158t7 WE97.A9.T7	SL-011	HSU10685 MAGE-10 gene (US 5,612,201)
SL-159	SL159m13 WE97.B9.M13 SL159t7 WE97.B9.T7	SL-159	Chromosome 11 pac
SL-160	SL160m13 WE97.C9.M13 SL160t7 WE97.C9.T7	SL-051	
SL-161	SL161m13 WE97.D9.M13 SL161t7 WE97.D9.T7	SL-161	HUMP65 phosphoprotein (p65) HUMPLASTA L-plastin gene
SL-162	SL162m13 B3 SL162t7 B3	SL-162	
SL-163	SL163m13 WE97.F9.M13 SL163t7 WE97.F9.T7	SL-016	HSU75330 -NCAM21
SL-164	SL164m13 WE97.G9.M13 SL164t7 WE97.G9.T7	SL-016	
SL-165	SL165m13 WE97.H9.M13 SL165t7 WE97.H9.T7	SL-165	(genomic seq)

TABLE 1

SL-166	SL166m13 C3 SL166t7 C3 SL166t7 WE97.A10.T7	SL-166	
SL-167	SL167m13 WE97.B10.M13 SL167t7 WE97.B10.T7	SL-167	HUMLPAC109 lipoprotein-associated coagulation inhibitor (LACI) gene
SL-168	SL168m13 WE97.C10.M13 SL168t7 WE97.C10.T7	SL-168	
SL-169	SL169m13 WE97.D10.M13 SL169t7 WE97.D10.T7	SL-169	HUMNEUROF oligodendrocyte myelin glycoprotein (OMG)
SL-170	SL170m13 WE97.E10.M13 SL170t7 WE97.E10.T7	SL-170	
SL-171	SL171m13 WE97.F10.M13 SL171t7 WE97.F10.T7	SL-171	AB002374 - KIAA0376 gene
SL-172	SL172m13 WE97.G10.M13 SL172t7 WE97.G10.T7	SL-016	
SL-173	SL173m13 WE97.H10.M13 SL173t7 WE97.H10.T7	SL-173	
SL-174	SL174m13 D3 SL174t7 D3	SL-174	
SL-175	SL175m13 WE97.B11.M13 SL175t7 WE97.B11.T7	SL-016	
SL-176	SL176m13 WE97.C11.M13 SL176t7 WE97.C11.T7	SL-176	
SL-177	SL177m13 WE97.D11.M13 SL177t7 WE97.D11.T7	SL-177	
SL-178	SL178m13 WE97.E11.M13 SL178t7 WE97.E11.T7	SL-178	Human BAC clone
SL-179	SL179m13 WE97.F11.M13 SL179t7 WE97.F11.T7	SL-179	
SL-181	SL181m13 WE97.H11.M13 SL181t7 WE97.H11.T7	SL-181	
SL-182	SL182m13 F3 SL182m13 WE97.A12.M13 SL182t7 F3	SL-182	HUMAPEA apurinic/apyrimidinic endonuclease (HAP1h) HSHAP1MR Human HAP1 mRNA
SL-183	SL183m13 WE97.B12.M13 SL183t7 WE97.B12.T7	SL-046	
SL-184	SL184m13 WE97.C12.M13 SL184t7 WE97.C12.T7	SL-016	
SL-186	SL186m13 WE97.D12.M13 SL186t7 WE97.D12.T7	SL-186	
SL-187	SL187m13 WE97.E12.M13 SL187t7 WE97.E12.T7	SL-187	
SL-188	SL188m13 G3 SL188t7 G3 SL188t7 WE97.F12.T7	SL-188	

TABLE 1

SL-191	SL191m13 WE97.H12.M13 SL191t7 WE97.H12.T7	SL-181	
SL-192	SL192m13 H3 SL192t7 H3	SL-192	Human DNA sequence"
SL-193	SL193m13 A4 SL193t7 A4	SL-193	
SL-194	SL194m13 B4 SL194t7 B4	SL-194	HUMKG1DD - KIAA0098 gene
SL-195	SL195m13 C4 SL195t7 C4	SL-195	
SL-196	SL196m13 D4 SL196t7 D4	SL-196	HUMMAOAAA monoamine oxidase (MAOA)
SL-197	SL197m13 E4 SL197t7 E4	SL-197	
SL-198	SL198m13 F4 SL198t7 F4	SL-198	
SL-199	SL199m13 G4 SL199t7 G4	SL-016	
SL-201	SL201m13 A5 SL201t7 A5	SL-028	(Mouse ESTs only)
SL-202	SL202m13 B5 SL202t7 B5	SL-202	mitochondrial genome & ESTs(?)
SL-203	SL203m13 C5 SL203t7 C5	SL-040	
SL-204	SL204m13 D5 SL204t7 D5	SL-204	
SL-205	SL205m13 E5 SL205t7 E5	SL-205	
SL-206	SL206m13 F5 SL206t7 F5	SL-015	AB006625 - KIAA0287 gene
SL-207	SL207m13 G5 SL207t7 G5	SL-207	HUMFOLMES - DHFR dihydrofolate reductase gene
SL-208	SL208m13 H5 SL208t7 H5	SL-208	AB011165 - KIAA0593
SL-209	SL209m13 A6 SL209t7 A6	SL-209	

batch 1
batch 2
batch 3
batch 4

TABLE 2

Seq. Name and/or Other Seq. Name.	BlasI vs. Gb (nearest neighbor)			BlasX vs. NRPdb (nearest neighbor)		
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
10-sl16-117	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
18-sl16-217	<NONE>	<NONE>	<NONE>	MT_PLEPL	METALLOTHIONEIN (MT)>PIR2:S30567 metallothionein - plaice>GP:PPMMET_1 P;platessa mRNA for metallothionein	0.32
22sl4	AC004601	*** SEQUENCING IN PROGRESS. *** Human Chromosome 11p14.3 PAC clone pDJ939m16; HTGS phase 1, 3 unordered pieces.	0.016	VP1_BCHP	PROTEIN VP1 (ORF1)	1.0
27sl9	AF001549	Homo sapiens chromosome 16 BAC clone CIT987SK-270G1 complete sequence.	7.2e-28	ALU6_HUMAN	IIII ALU SUBFAMILY SP WARNING ENTRY IIII	3.5e-07
32sl13	AF006259	Homo sapiens Rad51-interacting protein mRNA, complete cds.	1.2e-09	MMU93583_1	Mus musculus RAD51-binding protein RAB22 mRNA, complete cds	1.2e-13
39-sl3-1m13	U07083	Human prostatic acid phosphatase (ACPP) gene, exon 1.	1.1e-09	MMU41047_1	Mus musculus transcription factor Genesis mRNA, complete cds; A winged helix retinolic- acid hepatocyte nuclear factor 3/forkhead transcription factor; HNF3/FH transcription factor-	0.36
47-sl15-217	I08056	Sequence 2 from Patent EP 0272928.	4.8e-52	<NONE>	<NONE>	<NONE>
sl102m13	AC004453	Homo sapiens PAC clone DJ0844F09 from 7p12-p13, complete sequence.	5.0e-50	SIK1_YEAST	SIK1 PROTEIN>PIR2:S48550 hypothetical protein YLR197w - yeast (Saccharomyces cerevisiae)>GP:SCU20237_1 Saccharomyces cerevisiae SIK1p (SIK1) gene, complete cds; Possible microtubule binding protein; similar to GenBank Accession Number U14913	2.7e-09
sl103m13	AC002542	Human BAC clone RG114A06 from 7q31, complete sequence.	0.78	MUSIGHV01B_1	Mouse CBAJ Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene	0.30
sl10317	AC002542	Human BAC clone RG114A06 from 7q31, complete sequence.	7.0e-11	MUSIGHV01B_1	Mouse CBAJ Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene	0.25

TABLE 2

Seq. Name and/or Other Seq. Name.	BlasIN vs. Gb (nearest neighbor)		BlasIX vs. NRPdb (nearest neighbor)		P(V)
	Accession	Hit Description	Accession	Hit Description	
sl10617	I48979	Sequence 6 from patent US 5627054.	Y694_METJA	HYPOTHETICAL PROTEIN MJ0694>PIR2:F64386 hypothetical protein MJ0694 - Methanococcus jannaschli>GP:U67516_8 Methanococcus jannaschli section 58 of 150 of the complete genome; Conserved hypothetical protein; Similar to SP:Q12499.PID:1420682 PI.	1.5e-08
sl10717.fsa	AL021385	Human DNA sequence ... SEQUENCING IN PROGRESS ... from clone 269M15; HTGS phase 1.	ALU4_HUMAN	IIII ALU SUBFAMILY SB2 WARNING ENTRY IIII	0.45
sl12417	B31344	HS-1008-A2-A05-MF.abl C1T Human Genomic Sperm Library C Homo sapiens genomic clone Plate=CT 330 Col=10 Row=A, genomic survey sequence.	ALU7_HUMAN	IIII ALU SUBFAMILY SQ WARNING ENTRY IIII HYPOTHETICAL TRP-ASP REPEATS CONTAINING PROTEIN C18B11.10 IN CHROMOSOME 1>PIR2:S58306 hypothetical protein SPAC18B11.10 - fission yeast (Schizosaccharomyces pombe)>GP:SPAC18B11_10 S:pombe chromosome I cosmid c18B11; Unknown; SPAC18B11.10, la	1.2e-14
sl12717	Z83818	Human DNA sequence from PAC 138A5 on chromosome X contains ESTs.	YA3A_SCHPO	Homo sapiens BAC clone RG013N12 from 7q31.2, complete sequence; H_RG013N12.gw:1335199;a A; thaliana transcribed sequence; clone VDV28- 22792, 3' end; similar to nonspecific lipid- transfer protein precursor	0.97
sl135m13	AC003959	Homo sapiens chromosome 5, P1 clone 1029A7 (LBNL H15), complete sequence.	AC004416_5		0.016
sl13517	AC003044	Human PAC clone DJ1055C04 from 7p15-7p21, complete sequence.	ATTS0669_1		0.77
sl144m13	AC003684	Homo sapiens; HTGS phase 1, 53 unordered pieces. ... SEQUENCING IN PROGRESS ... Human Chromosome 7 BAC Clone 155b01; HTGS phase 1, 11 unordered pieces.	<NONE>	<NONE>	<NONE>
sl14417	AC004089		<NONE>	<NONE>	<NONE>

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description			
SL149m13 WE97.H7.M13	M87923	Human carcinoma cell-derived Alu RNA transcript, clone CE12.	ALU2_HUMAN	IIII ALU SUBFAMILY SB WARNING ENTRY IIII	7.2e-55		4.7e-17
SL150m13 WE 97.A8.M13	AF019122	Homo sapiens DNA polymerase gamma (POLG) gene, nuclear gene encoding mitochondrial protein, partial sequence, genomic survey sequence.	<NONE>	<NONE>	5.5e-07	<NONE>	<NONE>
SL152m13	AF022186	Cyanidium caldarium RK1 chloroplast sequence.	<NONE>	<NONE>	0.11	<NONE>	<NONE>
SL152i7	AC002524	Homo sapiens Xp22 BAC GSHB- 257G1 (Genome Systems BAC Library) complete sequence.	F40201	artifact-warning sequence (translated ALU class F) - human	3.5e-28		1.2e-05
SL153m13	U29895	Human 4-hydroxyphenylpyruvate- dioxygenase gene, complete cds.	C40201	artifact-warning sequence (translated ALU class C) - human	4.4e-15		0.49
SL153i7	U29895	Human 4-hydroxyphenylpyruvate- dioxygenase gene, complete cds.	A46010	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)>GP:S58722_1 X- linked retinopathy protein (3' region, clone XEH.8c) [human, mRNA Partial, 390 nt]; This sequence comes from Fig. 5	5.1e-09		0.070
SL155m13	Z99286	Caenorhabditis elegans cosmid Y7A9C, complete sequence.	POLG_PRSVH	GENOME POLYPROTEIN (CONTAINS: N- TERMINAL PROTEIN; HELPER COMPONENT PROTEINASE (EC 3.4.22.-) (HC-PRO); 42-50 KD PROTEIN; CYTOPLASMIC INCLUSION PROTEIN (CI); 6 KD PROTEIN; NUCLEAR INCLUSION PROTEIN A (NI- A) (EC 3.4.22.-) (49K PROTEINASE) (49	0.016		1.0
SL157m13	U91321	Human Chromosome 16 BAC clone CIT987SK-A-363E6, complete sequence.	ALU1_HUMAN	IIII ALU SUBFAMILY J WARNING ENTRY IIII	6.0e-26		4.5e-11

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)	Accession	Hit Description	P(V)	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description						
SL16017	<NONE>	<NONE>	CA34_HUMAN	PROCOLLAGEN ALPHA 3(IV) CHAIN PRECURSOR>PIR1:CGHU3B collagen alpha 3(IV) chain precursor, long splice form - human>GPN:HSCOL4A3_1 H;saplens COL4A3 mRNA; Type IV collagen alpha 3 chain>GP:HSCOL4A3_1 H;saplens COL4A3 mRNA; Type IV collagen alp	<NONE>					0.99
SL16217 WE97.E9.T7	X58263	Mouse microsatellite marker DNA D4SMH6b, 4.	PRF1_LYCES	36.4 KD PROLINE-RICH PROTEIN>PIR2:S19129 proline-rich protein TPRP-F1 - tomato>GP:LETPRPF1_1 L; esculentum TPRP-F1 gene for a proline rich protein	0.0029					0.99
SL16917	AC004687	... SEQUENCING IN PROGRESS ... Homo sapiens chromosome 17, clone hRPC.1171_1_10; HTGS phase 1, 4 unordered pieces.	<NONE>	<NONE>	2.5e-11				<NONE>	<NONE>
SL17417	<NONE>	<NONE>	A54895	mucin 2, intestinal/tracheal - rat (fragment)	<NONE>					0.13
SL176m13	Z73424	Caenorhabditis elegans cosmid C44B9, complete sequence.	<NONE>	<NONE>	0.00084				<NONE>	<NONE>
SL176i7	Z83119	Caenorhabditis elegans cosmid R05H10, complete sequence.	<NONE>	<NONE>	0.38				<NONE>	<NONE>
SL177m13	AL022279	Caenorhabditis elegans DNA ... SEQUENCING IN PROGRESS ... from clone Y43F11; HTGS phase 1.	ANX7_BOVIN	ANNEXIN VII (SYNEXIN) (FRAGMENT)>PIR2:A27695 synexin - bovine (fragment)	0.00064					0.0018
SL177i7	AC002416	Human Chromosome X, complete sequence.	<NONE>	<NONE>	1.8e-17				<NONE>	<NONE>
SL179m13	AF039052	Caenorhabditis elegans cosmid T22D1.	CMU23045_8	Cepaea nemoralis complete mitochondrial genome; ATPase subunit 8>GP:CMU23045_8 Cepaea nemoralis complete mitochondrial genome; ATPase subunit 8	0.030					0.98
SL179i7	L41631	Mus musculus glucokinase gene, complete cds.	<NONE>	<NONE>	0.017				<NONE>	<NONE>

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)	Accession	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description				
SL181m13	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase 1.	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GP:ANARODCORA_6 Anabaena sp; cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end	0.017			0.99
SL181i7	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase 1.	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GP:ANARODCORA_6 Anabaena sp; cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end	0.018			0.99
SL191m13	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase 1.	<NONE>	<NONE>	0.019			<NONE>
SL195m13	AC004626	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427H10; HTGS phase 1, 15 unordered pieces.	HSU55091_1	Human isolate HR015 T cell receptor V-beta complementarity determining region 3 mRNA, partial cds	0.050			1.0
SL195i7	AC004626	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427H10; HTGS phase 1, 15 unordered pieces.	S54078	probable membrane protein YPR056w - yeast (Saccharomyces cerevisiae)>GP:SC9499X_12 S; cerevisiae chromosome XVI cosmid 9499; Unknown; YP9499; 12, unknown, len:338, CAl: 0:12, similar to S44455, transcription factor BTF2 chain p34, (29:3% identit	0.053			0.64
SL197m13	AF003134	Caenorhabditis elegans cosmid ZC581.	<NONE>	<NONE>	0.99			<NONE>
SL197i7	U43400	Human herpesvirus-7 (HHV7) JI, complete virion genome. Sindbis virus sequence complementary to 26S messenger RNA.	<NONE>	<NONE>	0.99			<NONE>
SL18i7	V00073		<NONE>	<NONE>	3.2e-09			<NONE>

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)			BlastX vs. NRPdb (nearest neighbor)		
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL201m13	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.	0.0013	SIU05069_1	Simian Immunodeficiency virus SIVRhe543 clone 5-4 envelope glycoprotein (env) gene, V1 region, partial cds	1.0
SL201i7	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.	0.0014	HUMLTBP_1	Homo sapiens (clone H 4;4) latent transforming growth factor- beta binding protein (LTBP-1L) gene, partial cds; Latent transforming growth factor-binding protein	1.0
SL204m13	Z49910	Caenorhabditis elegans cosmid F44G4, complete sequence.	1.0e-11	CEF44G4_1	Caenorhabditis elegans cosmid F44G4, complete sequence; F44G4;1; Similarity to 35;1KD hypothetical yeast protein (Swiss Prot accession number P38805); cDNA EST CEMSE65F comes from this	5.6e-72
SL204i7	Z49910	Caenorhabditis elegans cosmid F44G4, complete sequence.	9.3e-12	CEF44G4_1	Caenorhabditis elegans cosmid F44G4, complete sequence; F44G4;1; Similarity to 35;1KD hypothetical yeast protein (Swiss Prot accession number P38805); cDNA EST CEMSE65F comes from this	2.3e-71
SL28m13	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
SL28i7	Z84469	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 380O13; HTGS phase 1.	2.9e-53	<NONE>	<NONE>	<NONE>
SL29m13	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	3.3e-09	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.-)>GP:MEFMCRC_5 M;fervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.95
SL29i7	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	0.97	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.-)>GP:MEFMCRC_5 M;fervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.97

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)	Accession	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description				
SL4M13	D42085	Human mRNA for KIAA0095 gene, complete cds.		Human mRNA for KIAA0095 gene, complete cds; KIAA0095 gene is related to S;cerevisiae NIC96 gene	2.0e-27	HUMKIAAP_1		3.6e-12
SL54m13	Z68694	Human DNA sequence from cosmid cU177E8, between markers DXS366 and DXS87 on chromosome X.		Human factor VIII gene L1 element insertion DNA; Unknown protein; ORF; putative	4.9e-28	HUMF8L1A_1		1.2e-12
SL6117	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.		Homo sapiens CDO mRNA, complete cds; Immunoglobulin superfamily member; contains fibronectin type III-like domain	0.00083	AF004841_1		1.0
SL6217	AC004153	*** SEQUENCING IN PROGRESS *** Plasmodium falciparum 3D7 chromosome 12 PFYAC812 genomic sequence; HTGS phase 1, 26 unordered pieces.			1.0	<NONE>	<NONE>	<NONE>
SL68m13	AC004157	*** SEQUENCING IN PROGRESS *** Plasmodium falciparum 3D7 chromosome 12 PFYAC293 genomic sequence; HTGS phase 1, 18 unordered pieces.			0.00071	<NONE>	<NONE>	<NONE>
SL6817	AJ226619	Clona intestinalis genomic fragment, clone 17H6, genomic survey sequence.			0.064	<NONE>	<NONE>	<NONE>
SL69m13.fsa	Z22789	H.sapiens CA/GT repeat polymorphism sequence.		Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein F, putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27;00; identified by sequence	1.9e-22	AE001179_2		1.0
SL6917	AL010138	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 3-56, complete sequence.		Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein F, putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27;00; identified by sequence	0.21	AE001179_2		1.0
SL75m13	AC002536	Human Chromosome 11 pac pDJ1075120, complete sequence.		B.taurus mRNA for complete thrombospondin	1.0	BTRNAT3_1		0.0074

TABLE 2

BlasIN vs. Gb (nearest neighbor)			BlasIX vs. NRPdb (nearest neighbor)			
Seq. Name and/or Other Seq. Name.	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL7717	AF012886	Buchnera aphidicola UDP-N-acetylmuramate: L-alanine ligase (murC157), D-alanine: D-alanine ligase (ddlB), cell division protein (ftsA), cell septation protein (ftsZ), and pfs genes, complete cds.	0.40	<NONE>	<NONE>	<NONE>
SL86m13	Z69790	Caenorhabditis elegans cosmid F33C8, complete sequence.	0.020	<NONE>	<NONE>	<NONE>
SL8617	U39368	Acanthonevra sp. 16S ribosomal RNA gene, mitochondrial gene encoding mitochondrial RNA, partial sequence.	0.054	<NONE>	<NONE>	<NONE>
SL90m13	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
SL94m13	X95276	P. falciparum complete gene map of plastid-like DNA (IR-B).	0.0096	SHFORF_1	Shigella sonnei DNA for 26 ORFs, complete cds; ORF1	0.15
SL9417	AL022313	Human DNA sequence ... SEQUENCING IN PROGRESS ... from clone 1119A7; HTGS phase 1.	6.0e-18	A46010	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)>GP:S58722_1 X-linked retinopathy protein (3' region, clone XEH.8c) [human, mRNA Partial, 390 nt]; This sequence comes from Fig: 5	5.7e-07

CLAIMS

WE CLAIM:

1. A method of diagnosing cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations comprising:
 - (a) providing a polynucleotide probe that comprises a sequence capable of hybridizing to any one of the sequences shown in SEQ ID NO:1-339 or complement thereof;
 - (b) contacting a biological sample for diagnosis with said probe under hybridizing conditions that permit formation of a duplex; and
 - (c) determining the presence of said duplex.
2. The method of claim 1, wherein said polynucleotide probe comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.
3. The method of claim 2, wherein said polynucleotide probe comprises 8 contiguous nucleotides of the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.
4. A method of diagnosing cancer, tumor progression, or hyperproliferative cell growth comprising:
 - (a) providing an antibody capable of binding to a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof;
 - (b) contacting a biological sample for diagnosis with said antibody under binding conditions that permit formation of an antibody-polypeptide complex; and
 - (c) determining the presence of said complex.
5. The method of claim 4, wherein said antibody is capable of binding to a polypeptide comprising at least six contiguous amino acid of a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof.

6. The method of claim 5, wherein said polypeptide comprises at least six contiguous amino acids of a polypeptide encoded by any one the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.

7. A diagnostic kit comprising:

- (a) a diagnostic reagent comprising a polynucleotide probe that comprises a sequence capable of hybridizing to any one of SEQ ID NO:339 or complement thereof when said sequence is present in a test biological sample;
- (b) a normal biological sample; and
- (c) instructions for detecting differences that exist between the levels of duplexes in said test biological sample as compared to said normal biological sample.

8. A method of treating a mammal with cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations, said method comprising administering to said mammal a composition that comprises a therapeutically effective amount of a polynucleotide comprising a sequence capable of hybridizing under stringent conditions to any one of SEQ ID NO:1-339 or complement thereof.

9. The method of claim 8, wherein said polynucleotide comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.

10. The method of claim 9, wherein said polynucleotide is an antisense construct.

11. The method of claim 9, wherein said polynucleotide is a ribozyme construct.

12. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of any one of SEQ ID NO:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;
 - (b) a polynucleotide encoding a variant of the polypeptide encoded by (a);
- and
- (c) a polynucleotide encoding a protein expressed by a polynucleotide having the sequence of at least one of sequences of (a).
13. A vector comprising the polynucleotide of claim 12.
14. A host cell comprising the vector of claim 13.
15. A composition comprising a polypeptide, wherein the polypeptide is selected from the group consisting of:
- (a) a polypeptide encoded by any one of the polynucleotides of claim 12,
- and
- (b) a variant of the polypeptide of (a).

1/3

Sequence Range: 1 to 1383

10 20 30 40 50 60
TTA CTC ACT ATA GGG CTC GAG CGG CCG CCC GGG CAG GTG TAA AAA TAA AAT GAC AGT TTG AAC ATA CAA
AAT GAG TGA TAT CCC GAG CTC GCC GGC GGG CCC GTC CAC ATT TTT ATT TTA CTG TCA AAC CAT ATA GTT
<E S Y P E L P R G P L H L F L I V T Q V Y L

70 80 90 100 110 120 130
AAC CCA CCC CAT TCC TAT AGA GCC TAG TAC TAC ACT ACC CCC TCC CAA CTT TAG CCT CCA CAT ATA GTA
TTG GGT GGG GTA AGG ATA TCT CGG ATC ATG ATG TGA TGG GGG AGG GTT GAA ATC GGA GGT GTA TAT CAT
<V W G M G I S G L V V S G G G L K L R W M Y Y

140 150 160 170 180 190 200
ATG TGC TTG GAA CAC AAA AAA CAC TTC ATA AAT TGT GCT GAA TGA AAT CAT TTC CAT GAG TGT TTA TGG
TAC ACG AAC CTT GTG TTT TTT GTG AAG TAT TTA ACA CGA CTT ACT TTA GTA AAG GTA CTC ACA AAT ACC
<H A Q F V F F V E Y I T S F S I M E M

210 220 230 240 250 260 270
ATT TTG AGT TCA TTT GTA CCT TTT ACC TAA AAT TCT AGC CAC TTT AAT TTG GAG AGT TTC CAG AGC AAA
TAA AAC TCA AGT AAA CAT GGA AAA TGG AAT TTA AGA TCG GTG AAA TTA AAC CTC TCA AAG GTC TCG TTT

280 290 300 310 320 330 340
GGA CCT TTT ACC TAA AAT TCT AGC CAC TTT AAT TTG GAG AGT TTC CAG AGC AAA GGG CAC AGA TCC CAG
CCT GGA AAA TGG ATT TTA AGA TCG GTG AAA TTA AAC CTC TCA AAG GTC TCG TTT CCC GTG TCT AGG GTC

350 360 370 380 390 400 410
GCA TAA CAA CGC TTT GCG TAT ACA GCA ACC AAT ATC TTG TCA ACC CAA GAA AGT TCC TCC ATT GAT ACC
CGT ATT GTT GCG AAA CGC ATA TGT CGT TGG TTA TAG AAC AGT TGG GTT CTT TCA AGG AGG TAA CTA TGG

420 430 440 450 460 470 480
TAG TAG AAA TAG CCC AGT TTT TAA AGT CCT CAA AAC TGT AAC TTA CTT GTT TTT AAA ATT TAA CTT
ATC ATC TTT ATC GGG TCA AAA ATT TCA GGA GTT TTG ACA TTG TTT AAT GAA CAA AAA TTT TAA ATT GAA

490 500 510 520 530 540 550
AAA TTA ATA CAA TCA GAT TTT TGT GTT ATT TGG GTA TTA GAG TAT GTT AAA GCA CAT ATA TCC CAG AGA
TTT AAT TAT GTT AGT CTA AAA ACA CAA TAA ACC CAT AAT CTC ATA CAA TTT CGT GTA TAT AGG GTC TCT

560 570 580 590 600 610 620
CAT AGA GTT TCC GTT TCA AAA AGT CAT GCA TTC ATG TGT CCT AAT GAC AAT CCT ATC CTG ACC CGC TAT
GTA TCT CAA AGG CAA AGT TTT TCA GTA CGT AAG TAC ACA CGA TTA CTG TTA GGA TAG GAC TGG GCG ATA

630 640 650 660 670 680 690
GTG ACT TGT ATC TCT AAA CCA TAG GCT TTC CTG AAT TTT ATC TGT TAA TTT AAC CCT GAT TTC TCA GCA
CAC TGA ACA TAG AGA TTT GGT ATC CGA AAG GAC TTA AAA TAG ACA ATT AAA TTG GGA CTA AAG AGT CGT

700 710 720 730 740 750
GCA GCT TCT CTT TGT TAA TAG ACT TGC CTC TTC TGT GTC TGA CCT CTG CTC CTC ATA ATC AGA TTA ACT
CGT CGA AGA GAA ACA TTT ATC TGA ACG GAG AAG ACA CAG ACT GGA GAC GAG GAG TAT TAG TCT AAT TGA

760 770 780 790 800 810 820
CAG ATA AAG CTG CTT CAG GGA AGA GGT CAA AAC CGT TGC CAA AAA TAG TAG TTG CCC TAC TTC AGT CTA
GTC TAT TTC GAC GAA GTC CCT TCT CCA GTT TTG GCA ACG GTT TTT ATC ATC AAC GGG ATG AAG TCA GAT

830 840 850 860 870 880 890
TTT TCA ACA GAG TAG CCA GGA GAT CCT GTT CAC ACC AAA GTC CAA TCA GCC CTA CTG TTA GCA CTC TGC
AAA AGT TGT CTC ATC GGT CCT CTA GGA CAA GTG TGG TTT CAG GTT AGT CGG GAT GAC AAT CGT GAG ACG

900 910 920 930 940 950 960
TCA CAA GCC TCC AGT GGC TTC CGA CCT CAC TCA CAG TAA AAG CCA AGT CAT CCT TTA GCC TAT GAT GTC
AGT GTT CGG AGG TCA CCG AAG GCT GGA GTG AGT TTC GGT TCA GTA GGA AAT CGG ATA CTA CAG

970 980 990 1000 1010 1020 1030
CTA CAT GAT TTG AAT TCC CTT CCA TTG ATT TTT GTC ACT GAT TTT TAA AAA TCC AAA TTC ATT CTC ATA
GAT GTA CTA AAC TTA AGG GAA GGT AAC TAA AAA CAG TGA CTA AAA ATT TTT AGG TTT AAG TAA GAG TAT

1040 1050 1060 1070 1080 1090 1100
CAG CTG AAT TGT CCT CTT TGC TTT AAG TAT GCC AGG ATT ATT TCT ACC TCA GGG CCT TTG CAC TTG ATA
GTC GAC TTA ACA GGA GAA ACG AAA TTC ATA CGG TCC TAA TAA AGA TGG AGT CCC GGA AAC GTG AAC TAT

1110 1120 1130 1140 1150 1160 1170
TTC CCT TCA CCT TTT CCA AGA TAG TTA TTC CCT CAC CTC AGT CAA GCC TTT ATT TAG ATG CCC CCT TCT
AAG GGA AGT GGA AAA GGT TCT ATT AAT AAG GGA GTG GAG TCA GTT CGG AAA TAA ATC TAC GGG GGA AGA

1180 1190 1200 1210 1220 1230 1240
CAT CAA GGC ATT CTC TGA TCT CCT TAT TTA AAT GTA TGA CAC CCC TTC TTT GCT TTA CAT TTA ATC AGA
GTA GTT CCG TAA GAG ACT AGA GGA ATA AAT TTA CAT ACT GTG GGG AAG AAA CGA AAT GTA AAT TAG TCT

1250 1260 1270 1280 1290 1300 1310
ACA TGT GTC ACT ATC TAG CAT ATA ATA CAT TTG CTT GAC CTC TTT TGT TTA CTG TCT ATG CCT CCT GAA
TGT ACA CAG TGA TAG ATC GTA TAT TAT GTA AAC GAA CTG GAG AAA ACA AAT GAC AGA TAC GGA GGA CTT

1320 1330 1340 1350 1360 1370 1380
TAC TGT GTA AGC TCC ACG ATA CAG GCA CTT TTC TCT ATT TCG AGC ACT GTT GTA TTA CAG AGC CTT AAA
ATG ACA CAT TCG AGG TGC TAT GTC CGT GAA AAG AGA TAA AGC TCG TGA CAA CAT AAT GTC TCG GAA TTT

FIGURE 1

2/3

Sequence Range: 1 to 1815

10 20 30 40 50 60
ACT TTT TGT TCA TTT TGA TTT TTG GAT AAT GCA AAA TTA TAG ATT TTT TAA AAA TTA TAT TCA AAG AAT
TGA AAA ACA AGT AAA ACT AAA AAC CTA TTA CGT TTT AAT ATC TAA AAA ATT TTT AAT ATA AGT TTC TTA

70 80 90 100 110 120 130
ACT GAG TGC AAG ACA ATC TTT CTA GGT TAA AAA ATA TCT TAT AAA CCT GAA TTG TCA ATT ATT ATT GTA
TGA CTC ACG TTC TGT TAG AAA GAT CCA ATT TTT TAT AGA ATA TTT GGA CTT AAC AGT TAA TAA TAA CAT

140 150 160 170 180 190 200
TCC CAG ATG TAT GGA AGT TAA TGG ATA GTC AGT AAC ATA CAG GAC TAG CAG AAG GTT TGT TGT TAT AGG
AGG GTC TAC ATA CCT TCA ATT ACC TAT CAG TCA TTG TAT GTC CTG ATC GTC TTC CAA ACA ACA ATA TCC

210 220 230 240 250 260 270
TAA TCT GGA GAG AAG CCA GGT AAG TGG AAT TTG GGA TTT GCT GCT GTT GCC AGA AAG CAG CAC AGA GAC
ATT AGA CCT CTC TTC GGT CCA TTC ACC TTA AAC CCT AAA CGA CGA CAA CGG TCT TTC GTC GTG TCT CTG

280 290 300 310 320 330 340
ATG GTA AGT GGC AAG ACC CAG GTA ACT AAA ACA ACC ATG TCT TAG TCC TTT TAT GCT GCT GTA ACA GAA
TAC CAT TCA CCG TTC TGG GTC CAT TGA TTT TGT TGG TAC AGA ATC AGG AAA ATA CGA CGA CAT TGT CTT

350 360 370 380 390 400 410
TAT CAC AGA CTG AGT AAT TTA TAA TGA ACA GAA CTT TAT TTG TCT TCT GGT TCT GGA GAC TGG GAA ATC
ATA GTG TCT GAC TCA TTA AAT ATT ACT TGT CTT GAA ATA AAC AGA AGA CCA AGA CCT CTG ACC CTT TAG

420 430 440 450 460 470 480
TAA GAG CGT GGC ATT GAC ATA TGG TGA GGG CAT TTG TGC CTC ATC ATC CCA TGA CAG AAG ATG GAA ATG
ATT CTC GCA CCG TAA CTG TAT ACC ACT CCC GTA AAC ACG GAG TAG TAG GGT ACT GTC TTC TAC CTT TAC

490 500 510 520 530 540 550
CAA GAG AGC TCA AAA GCA AGA GAG CAA ATG GGG CCA AAC TTG CTT TTT ATA ACA AGC CAC TCT TGT GAT
GTT CTC TCG AGT TTT CGT TCT CTC GTT TAC CCC GGT TTG AAC GAA AAA TAT TGT TCG GTG AGA ACA CTA

560 570 580 590 600 610 620
AAT GAA CCA ACT CAA ACA ATA AAG ACA TAA ATC CAT TCA TGA GGG CAG AGC CCT CAA GGA TGA ATC ACT
TTA CTT GGT TGA GTT TGT TAT TTC TGT ATT TAG GTA AGT ACT CCC GTC TCG GGA GTT CCT ACT TAG TGA

630 640 650 660 670 680
TCA CTT CTT A ATG GCC TCA GCT TCT AAT ACC ATC ACA ATA GTA ATT CAG TTT CAA CAT GGG TTT TAT
AGT GAA GAA T TAC CGG AGT CGA AGA TTA TGG TAG TGT TAT CAT TAA GTC AAA GTT GTA CCC AAA ATA
M A S A S N T I T I V I Q F Q H G F Y>

690 700 710 720 730 740 750
AGG GAC GTT GGA ACC ACA GCA AAC TGT AAC CAT TTT GAT TTC CTT ATT TGC ACC ATT TTA AAA AAA CCT
TCC CTG CAA CCT TGG TGT CGT TTG ACA TTG GTA AAA CTA AAG GAA TAA ACG TGG TAA AAT TTT TTT GGA
R D V G T T A N C N H F D F L I C T I L K K P>

760 770 780 790 800 810 820
ATT TAT TTA ACG ACT GTT TAT TCA GTG CCT ATT CTG TTG TGT TGG GGA CTA GAG GTA ATT ACA AAG GGA
TAA ATA AAT TGC TGA CAA ATA AGT CAC GGA TAA GAC AAC ACA ACC CCT GAT CTC CAT TAA TGT TTC CCT
I Y L T T V Y S V P I L L C W G L E V I T K G>

830 840 850 860 870 880 890
ATA AGA CAA ACA GTC ACC CAC TCT GGT GAT GCT TCC CTT ATC TTC ATA ATG CAT TTG ATC CTG TG ATT
TAT TCT GTT TGT CAG TGG GTG AGA CCA CTA CGA AGG GAA TAG AAG TAT TAC GTA AAC TAG GAC AC TAA
I R Q T V T H S G D A S L I F I M H L I L>

900 910 920 930 940 950 960
CTT TGG CAC ATG AGT CCA TTG CAT CTT GCA TAT TAG TGT CCA GTA AGT TTT TCC TGA CCA ATT GAT AAT
GAA ACC GTG TAC TCA GGT AAC GTA GAA CGT ATA ATC ACA GGT CAT TCA AAA AGG ACT GGT TAA CTA TTA

970 980 990 1000 1010 1020 1030
ATA GAT ATA CAT TGG TAG CAG TTT TGT GTA TAT TTT TAT AGT TAG ATG TTG TTG GCA CAT GTG ACT TGT
TAT CTA TAT GTA ACC ATC GTC AAA ACA CAT ATA AAA ATA TCA ATC AAC AAC CGT GTA CAC TGA ACA

1040 1050 1060 1070 1080 1090 1100
GTC TCA GAA AAA TAC AGA AAA TGG TTA AAG ACA GGA GGA TAC TAC CCT GAT TTC TCT GTT CAT TAA AGA
CAG AGT CTT TTT ATG TCT TTT ACC AAT TTC TGT CCT CCT ATG ATG GGA CTA AAG AGA CAA GTA ATT TCT

1110 1120 1130 1140 1150 1160 1170
ACA GCT ATT TGG GGG GAA AAC CTG ATA CAA TTA TTT GAG CAT GTG GCT TAA AGA TTA GAC CTA TAA ACA
TGT CGA TAA ACC CCC CTT TTG GAC TAT GTT AAT AAA CTC GTA CAC CGA ATT TCT AAT CTG GAT ATT TGT

1180 1190 1200 1210 1220 1230
ATT CAG GAG CAT CTT CCA GCA AAC TGT GTG AGA ATT CAC AGA AAT AAA CCT GGT AGG TTT GTG CTA TGT
TAA GTC CTC GTA GAA GGT CGT TTG ACA CAC TCT TAA GTG TCT TTA TTT GGA CCA TCC AAA CAC GAT ACA

1240 1250 1260 1270 1280 1290 1300
TAT TCA CAT GGG CTG TTA ACT CTT TTC CAT TCC TAG GTC CTT TAT TTC CCT GCC CTC CTC AAT CTC ATG
ATA AGT GTA CCC GAC AAT TGA GAA AAG GTA AGG ATC CAG GAA ATA AAG GGA CGG GAG TAT GAG TAC

1310 1320 1330 1340 1350 1360 1370
CTC TTG AGA TTT TTA ACT ATA TTA CTT CTT TAC AAA GTC ATC TTC AAA ATG ATT CAT TTT GGA TAG CAA

SL5 Immunohistochemistry Comparison of Tumor vs Normal

	1	2	3	4	5	6	7	8	9	10
A	Adrenal	Adrenal	Adrenal	Ovary	Ovary	Ovary	Ovary	Breast	Breast	Breast
Tumor	(+4)	(+4)	(+2)	(+4)	(+4)	(+4)	(+4)	na	(+4)	(+1)
NC	(-)	(-)	(-)	wp	(-)	(-)	(-)	na	(-)	(-)
Normal	(+2)	(+2)	(+2)	(+1)	(+1)	na	na	(+1)	na	na
NC	(-)	(-)	(-)	(-)	(-)	na	na	(-)	na	na
B	Colon	Colon	Colon	Colon	Prostate	Prostate	Prostate	Prostate	Uterus	Cervical
Tumor	(+4)	(+4)	(+4)	(+4)	(+2)	(+3)	(+3)	(+3)	(+4)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Normal	(+2)	(+1)	(+2)	(+3)	?	(+2)	(+1)	(+2)	(+2)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
C	Kidney	Kidney	Kidney	Kidney	Pancreas	Pancreas	Pancreas	Pancreas	Lelomyo.	Lelomyo.
Tumor	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG	EDG
Normal	?	?	?	?	(+1)	(+1)	(+2)	(+1)		
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)		
D	Liver	Liver	Liver	Stomach	Stomach	Stomach	Lymphoma	Lymphoma	Lymphoma	Lymphoma
Tumor	(+4)	(+4)	(+4)	(-)	na	na	(+4)	(+2)	(+2)	(+1)
NC	(-)	(-)	(-)	(-)	na	na	(-)	(-)	(-)	(-)
Normal	na	na	na	na	na	na	(+1)	(+1)	?	(-)
NC	na	na	na	na	(-)	(-)	(-)	na	(-)	(-)
E	Seminoma	Seminoma	Seminoma	Thyroid	Thyroid	Thyroid	Thyroid	Fibro.	Fibro.	Fibro.
Tumor	(+3)	(+4)	(+4)	(+4)	na	na	na	(+4)	(+4)	(+4)
NC	(-)	(-)	(-)	EDG	wp	EDG	EDG	(-)	(-)	(-)
Normal	(+2)	(+1)	(+2)	(+1)	(+1)	(+2)	(-)	purk(+)	(+2)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	na	na
F	Melanoma	Melanoma	Melanoma	Chorio.	Chorio.	Chorio.	Basal Cell	Basal Cell	Basal Cell	Germ Cell
Tumor	(+4)	(+4)	(+4)	(+4)	(+4)?	(+1)	(+3)	(+3)	(+1)	(+4)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG
Normal							(+1)	(+1)		(+1)
NC							(-)	(-)		(-)

Staining Intensity: -, no staining; + weak; ++ medium; +++ strong staining

Staining Percentage: 1: 0-25%; 2: 26-50%; 3: 51-75%; 4: 76-100%

For example: (++3) stands for 51-75% of cells have medium staining

NC: Negative Control; na: no tissue materials on slides

FIGURE 3

SEQUENCE LISTING

<110> Zhang, Jimmy
 Astel, Jon H.
 Carroll III, Eddie
 Endege, Wilson O.
 Ford, Donna M.
 Monahan, John E.
 Schlegel, Robert
 Steinmann, Kathleen E.

<120> GENES AND GENE EXPRESSION PRODUCTS THAT
 ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

<130> 200130.463

<140> US

<141> 1999-06-11

<160> 339

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

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aatcccagca cttggggagg ccgaggatct cctctctggt ggatcacttg agggcaggag	120
ttaagagacc atcctggcca acatgatgaa accctgtctc tactaaaaat acaaaaagta	180
gctgggctgt gtggcatact cttacaatcc cagctacttg ggaggctgag gcaggagaat	240
cacttgaacc taggaagcag aggttgcagt gggccaagat cacaccacta tactctagcc	300
tgggcgacag aggtggggaa aaaagtagga cccctgtcct atattcaggt ttttctcaca	360
tatatgaacc catctaaatt ctacgttggt aaaggtagct taggttaatt agtctatact	420
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tctactttcc ttctaattgag gaaaaagggtg acaaaaattc aagtgtcaat gtccccctcc	540
tgggaagagg tttagaaaaa caacagctca ccttctgaac tctaccagtt ccttttgaag	600
ttaacgaagc attaaaatca gatgtaaaaa aagaaaaaaa aaggcaggga aatatttaca	660
aaactggaca ttctttacag atatacaatc ttgctaatac tgggagaacc nttccaagga	720
tgtataaaga ggagacgnca ccttagtaat gccagggata gagaaaaccc nggatataat	780
atgggggtttt taatgccgga acatggngga aactaggang agccgagatg ganctgggcc	840
ctgaagtga ctggttnagn tattctgggn accctcagga gggccttgca agtgtgtggg	900
taggnaaaaa actgggctgg gcaaaactact tggntncaag tttttttatg ggagaccgaa	960
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accc	1024

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<213> Homo Sapien

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 <223> n = A,T,C or G

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ncatccctaan	acgactcact	atagggcagt	gacgaaagg	acnnccngnga	ngnttnntgg	120
ntangcgatc	agctattgna	cggaaatctct	gtganantga	nnagctnana	tcntctccan	180
ggaanaacag	ntccncaang	ctntattnga	gacagagcta	tgacannnnc	ntntntactc	240
ngacagtctt	taggaaccnc	gcaantgana	nngnggngat	gnactagga	nctgncncnn	300
ntagnagcgc	agcccgggtg	ataactgccc	tggtacncng	nagctgnaaa	gccgcctgca	360
gaccgaacct	gagactgacg	tcgcctcanc	tatngacnnn	nnnccnatnn	tgagtgnaag	420
cgtntctnatg	ngacactcgg	ggncacagat	gcanancgct	ancnnccnn	ggngtgncan	480
tnagnnatcn	ttgcncatat	tncgatnttt	gacatgtgta	atgatngaga	tctcatannt	540
gcactgtgct	tctcatctat	taacgctaaa	ccatgacagt	ttntcttcat	tgccacntnc	600
tttcagtgc	ccnanaatnt	atcgctanat	attcnatcct	tcaacngtag	cattnttcct	660
gctnttcttt	ncnnaaagca	tcttctttcc	caactcactc	cagggccaaa	tactctcanc	720
cnntcactn	tangntctcn	gntcacgggc	tttcccgta	cacgtcattc	aattccccctc	780
gnaagctanc	ccaggcccaa	ctttnttctt	cttcaccggn	nntaacttaa	tcctggggga	840
aggnaangcn	nggntcttta	gccttgntcc	agaaccttng	gtagccccgg	ncacaaatcc	900
naaaaacctt	tgagggtttg	gggggtggac	ccccggncct	tttttcccg	gtnggggttta	960
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cngg						1024

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 <223> n = A,T,C or G

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cctttttag	ccttttccct	tagtctctc	ttcccgggtg	ttggtaaaaa	gaggtgaatt	180
gacagcctat	ggtgaagaca	ctgtgctttt	ctcaagaagg	acatccaaac	agcaagtcta	240
cttctttctc	tttaacgatg	tgctcattat	caccaagaag	aagagtgaag	aaagttaaca	300
cgtcaatgat	tattccttaa	gagatcagct	attgggtgaa	tcttgtaga	atgaagagct	360
taattcttct	ccagggaaga	acagctccac	aatgctctat	tcaagacaga	gctctgccag	420
tcacctcttt	actctgacag	tccttagtaa	ccacgcgaat	gagaaagtgg	agatgctact	480
aggagctgag	acgcagagcg	agcgagccc	ctggataact	gccctgggac	acagcagcgg	540
gaagccgcct	gcagaccgaa	cctcactgac	ccagggtgaa	atcgtaggt	catttactgc	600
taagcagcca	gatgaactct	ccctgcagg	ggctgacgtc	gtcctcatct	atcaacgtgt	660
cagcgatggc	tggtatgagg	gggaacgact	acgagatgga	gaaagaagct	ggtttcttat	720
ggaatgtgcc	aaggagataa	catgtcaagg	ctaacaattgn	ttaagaatgt	ggagagaatg	780
ggacgcttgc	taggactgga	gaanccacgt	gagnttttn	aangggcctt	tggtactgca	840
agaattgcac	cgacacttac	cgggcttggt	ggttctgggg	ctagttaaat	ggnaatttgg	900
cccagncttt	ttaattaaag	gaccgaaaac	cntggccttt	aactttggcc	agtggtnccg	960
tntntnatgg	aaaaaacttt	gggtaccccc	gngttgccca	ggtagtttt	acctaaccct	1020
cccn						1024

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 <212> DNA
 <213> Homo Sapien

<220>
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<223> n = A,T,C or G

<400> 4

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tgtgatcttg	gctcactgct	acctccacct	cccaggetca	cacgatcctc	cagcctcagc	120
ctcccaagta	gctgcgacta	caggtgcacg	ccattgcagc	tggttaattt	ttgtattttc	180
agtagagatg	gggtttcccc	atgttggcca	ggctggtctt	gaactcctaa	gctcaagcaa	240
ttcacctgcc	tcagcctccc	agagtgtctg	gattactcct	aagctcaagc	aattcacctg	300
cctcagcctc	ccagagtgtc	gggattactc	ctaagctcaa	gcaattcatc	tgccctcagcc	360
tcccagagt	ctgggattac	tcctaaactc	aagcaattca	cctgcctcag	cctcccagag	420
tgctgggatt	actcctaagc	tcaagcaatt	cacctgcctc	agcctcccag	agtgtctggga	480
ttactcctaa	gctcaagcaa	ttcacctgcc	tcagcctccc	agagtgtctg	gattactcct	540
aagctcaagc	aattcacctg	cctcagcctc	ccagagtgtc	gggattacag	gtgtgaagca	600
ctacacccag	cccattcttc	ccttttaacc	aaggaagaaa	ttacacaatg	aaacaaatac	660
ccgaatctt	aatatcactt	ttcctttgnc	ataattaaca	attagcgaca	cagaatcgag	720
gggaaaaaca	caggatccgt	ttacttctan	gaanggcgtt	tctgtgaatc	taagaagggg	780
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ctggggagaa	acttntcggg	gatnggaagt	gaaannggtt	ccgnetgggc	ccccttnttt	900
tgggaaaccc	caggngngtn	tngcaaaggc	caagggaaa	gcctcaaggg	ggggcatgaa	960
ctttgnagct	tccaactttg	gttccnttan	acnngggggg	gcccctnatg	cccaaaaagg	1020
gctt						1024

<210> 5

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

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<223> n = A,T,C or G

<400> 5

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tccttcctaa	tacnactcac	tataggcggn	agnggccacn	tcnagctngn	gnnngaagtt	120
ggntgtcngt	gnagtctgt	cctgngggcan	cgcgtcatgc	atgactttgg	gtcattgctg	180
ctctccttgc	ctttagggga	gggtcctggt	gctctgtgag	cagattngac	cctaggggtg	240
aagtcactctn	gcccctgttc	tgagccgaga	gctggncagg	gngcgtctca	catcattcct	300
ctgcccctgt	ngncgcgatg	gaaatcctaa	acaggctctg	tggnaaangc	tgnnccaagg	360
cgcctcctgg	gcagncganc	catcagnnga	tcgnnagccn	ngaancgatg	gcccgggaaa	420
accaaaccag	gaannaanca	caccgtgcga	aaggntattg	tgaacgaact	gaaaaattgt	480
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ttttttgggt	cccaaaaccg	ggccaagatt	gggcttcaaa	aancctttga	accngggggg	840
ncaattnttn	gggnttanat	cccccgaaa	gaanngggan	ggtntttna	gnaaaanccc	900
nnccaaggaa	cccnggttt	gggcentgga	agggncctg	gncnnggtt	cgaggntttg	960
ncttaactgg	aaggncccna	aagggaaaac	cnnnnntttt	tnaagggntc	cccggaaaccc	1020
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<210> 6

<211> 957

<212> DNA

<213> Homo Sapien

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<223> n = A,T,C or G

<400> 6

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gtagatggcc	cagccccaag	tggtccgac	ttcctgccc	aacatattct	gtgacggaaa	120
gcctatgttg	acctcgccg	gcaactcaag	cgtgggcagc	ggcctaacgt	ctgctgcggg	180
aacacagtcg	cgttgaatgc	tattctcaag	acagacaaaa	cagtgggaag	acactacgcc	240
aagctgctaa	ctccctggcc	attgccggac	tctttcaccc	ccatggactt	tccgctggca	300
ttttaaacaa	catagtttct	tttctctgtc	tctttctctt	tccctctctc	tttctcttct	360
tctctctctc	tctctctctc	tctctctctc	tctcaatctc	ataatttctc	tctctctgtc	420
cacgttccca	cccaacgctc	tctcgcccac	ttctactggg	gcccacttcc	tctcctgtct	480
tctctgtctc	aacgtgattg	actttcttgt	gctgcncagg	acttcttggc	cacgtgcgcc	540
ttcaanacgg	taaagagctg	caactgaacg	tgtgagacat	ggtgcanata	aggctgagag	600
ggcggnggga	gagatgccc	tgaactcaag	tacctgccc	ggcnggccgc	tcgaaagggg	660
gaattccagc	aaactggcgg	ccgttactan	tggattcng	ctccgggtac	ngcttggggg	720
aatcatggtc	aatanctggg	ttcctgtggg	naaattgggt	ntccgggtca	nnaatttcaa	780
nannanatan	naagcncggg	aancataaan	ttgttaaagc	ccnggggttc	cctnaatnan	840
tttgncttan	tnnaacntta	aattngngnt	ttnnncnncan	annngcngnt	ttttcaattc	900
cgggaaanct	ngtctnnngn	agctngcatt	atcnanttcg	ggccaaangc	gcggggg	957

<210> 7

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1024)

<223> n = A,T,C or G

<400> 7

cttggcaccg	ccctcgatc	cctagtaacg	gccgccagtg	tgttgaatt	cgccctttag	60
agtatagtgg	tgtgatcttg	gctcactgca	acctccacct	cctgggttea	agcaatgctg	120
cctcagcctc	cccagtagtt	gggactacag	gcgtgtgcca	ccacaccggg	ctaatttttg	180
tatttgcagt	agagacgggg	tttcatcatg	ttggccaggc	tgggtctcgaa	ctcctggcct	240
caagtgcac	gcctgcctca	acctcccaaa	gtgctgggat	tacaggcggtg	agccaccgca	300
cctggcctct	atgctcgaat	ttctactctt	agctaattctc	tctaacacat	atgcccttca	360
ttgggtaaa	ctggctcagc	agactaatta	cacctgtcat	gtaatacaag	cctctccttg	420
gcctgtatta	tctcatgggt	gccttctatt	tgtgacaagt	gctatgaata	ttccttttta	480
agaagtgata	caaaatcttt	tttttttctt	tgaacaggat	ttttaactca	gacagtgtaa	540
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attggaangg	aatctgggga	tcaatggaac	atacccgga	atacttttnt	ttcccccaaa	840
ccaagгнаат	ggaatgtcaa	aagtattgga	gcctaattta	aaatggggnt	tcctantaa	900
agntttgctt	tcanttaatg	ggancanttg	gcnanntggt	tttgggnacc	cctgcataat	960
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cccg						1024

<210> 8

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

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<222> (1) ... (1024)

<223> n = A,T,C or G

<400> 8

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tactangacg	actnactata	ggnnnngtnc	agtgcgctgc	gatcgggtgt	agggttatan	120

ngcngnnggn	ntnctnttgg	agagntnngn	ngctnanctg	ctatgntctc	ntggatnnnc	180
tntgccccga	gaaaatnaat	gcgttttgaa	cagttttagn	tttgtgcctc	atanattgtg	240
tnantgctat	ncattatnnn	gnntgcatat	ntantctnna	nngccnncaa	ggcatcgeng	300
atggntctaac	atctcaaaac	nccttancct	acanntganc	nntgtggnan	actttgnngn	360
ggnantgtgg	ntaaaagnac	canggggna	atcntggntc	agancnctan	aaagcattgn	420
ttactacaac	tggtcttga	atateccctt	gcgtgatgat	ttgtggtcag	ctgcctacag	480
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tantntgtaa	ncacnatcta	anttngcatc	agtntctcatg	acatncatta	catgggacag	600
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gnggncttga	tgnccatgtt	ccaaaaggaa	tccgatgcca	nnagcngctg	ggacagtctt	840
aagcttttct	tcnccaccct	tctatcttga	acttncanac	gtttccggaa	acnccaanga	900
nngttaccac	ttgccngacc	taaaaaacnc	tgttcacgaa	nttnaacttn	ggatttngga	960
acncttttct	tanaaagggt	tatccattgc	nctttgtgnc	caaataggan	ggccnccctt	1020
nnga						1024

<210> 9

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 9

accgccctcg	nateccctagt	aacggccgcc	agtgtgctgg	aattcgccct	ttagagtata	60
gtggtgtgat	cttggcccac	tgcaacctct	gcttcctagg	ttcaagtgat	tctcctgcct	120
cagcctccca	agtagctggg	attgtaagag	tatgccacca	cgcccagcta	ctttttgtat	180
ttttagtaga	gacagggttt	catcatgttg	gccaggatgg	tctcttaact	cctgccctca	240
agtgatccac	cagagaggag	atcctcggcc	tccccaaagt	ctgggattat	aggcatgagc	300
caccgtgccc	agcctacttt	ctaattaacc	aaaaaaaaaa	aaaaaaaaaa	aaaaaaagcg	360
gccgtggaat	tctattctag	aattaagcgg	ccgtggaatt	ctagacctgc	ccgggcggcc	420
gctcgagccc	tatagttagt	cgtattagga	tggaggggcg	aattctgcag	atatccatca	480
cactggcggc	cgctcgagca	tgcanttaga	gggcccatt	cgccctatag	tgagtcgtat	540
tacaattcac	tggccgtcgt	tttacaacgt	cgtgactggg	aaaaccctgg	cgttacccaa	600
cttaatcgcc	ttgcagcaca	tcccccttcc	gccagctggc	gtaatagcga	agaggcccga	660
ccgategncc	ttccaacagt	tgcgcagcct	gaatggcgaa	tggacgcgcc	ctgtagcggc	720
gcattaance	gccggcgggt	gtggtgggta	cncgcancg	tgaaccgnta	cacttggcan	780
ggncctacgg	cccgnttcc	ttcgctttct	ttcctttcct	ttnttggnga	cgtttcggcc	840
gggttttccc	cggtnaagct	nttaaattng	ggggcttccc	ntttangggg	tcccgaantt	900
anngccttta	acgggacctt	ggancccca	aaaacttttg	tttanggggg	angggttcac	960
cgtaannggg	nccatttgcc	ctggntaaac	nggttttttc	ccccnttgac	nttgggnanc	1020
cccg						1024

<210> 10

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 10

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ncnatectaa	tacgactcac	tatagggctn	gagcggncga	ccggacagng	ntnnnggtgg	120
ctnatgccta	naatcccagn	acttggggag	gccnaggatc	tcctntntgg	tgatcactt	180
gagggcagga	gttaanagac	catcctggcc	aacatgatga	aaccctgtct	ctactaaaaa	240

tacanaangt	agctgggcgt	ggtggcatac	tcttacaanc	ccagctactt	gggaggctga	300
ggcaggagaa	tcacttgaac	ctaggaagca	gaggttgag	tgggcccaaga	tcacaccact	360
atactctaaa	gggcgaattc	cagcacactg	gcgnccgtta	ctagaggatc	cgngctcggg	420
nccaagcttg	gcgtaatcat	ggacanagct	gttnccctgtg	tgaaatgggt	aancgctnac	480
aanntnacac	aacatacnag	ccggaagcat	aaagngtnaa	gcctggggng	cctaatagag	540
gagctaactc	acattaattg	cggttgcgctc	actgcccgtc	ttncagntcg	ggaaacctgc	600
cgtgccagct	gcattaatga	atcggccacg	cncnggggag	aggcggantg	cgaatgggag	660
cttcttncgn	ttctcgctta	ctgactngat	gcggttcggc	ccattgnntg	cagcaaagcg	720
gnatcngctc	acttnaaagg	cnggnaatnc	cgggtntccc	chtgaatccg	ggggattacc	780
gcaggtnaag	aaccatgggg	anccaaaagg	ccagctaaaa	ggggccggga	acccggaaaa	840
aaggcccngt	tggttggcgt	tttttcanaa	gggtccgccc	ccttgaccgn	ngcnttacia	900
aaattnggag	gcnttaaggt	cnnaantggg	ggaaaccccc	cgggaaattt	caggntnccc	960
nggggtttcc	cctgggaagt	tncttngggg	gctttccnnt	tcnaaacctg	gcgnttaccg	1020
gnaa						1024

<210> 11

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 11

gtncgtctag	atgcatgctc	gagcggccgc	cagtgtgatg	gatatctgca	gaattcgccc	60
ttgagcggcc	gcccgggcag	gtacgcgggg	gggcatttcc	ctgacgactc	gtgtgtgccc	120
tgggggagcg	gtagatggcc	cagccccaag	tggtccgata	ttcctgccc	aacatattct	180
gtgacggaaa	gcctatgttg	acctcgctcc	gcactcaagg	cgtgggcagc	ggcctaactg	240
ctgctgcggg	aacacagtcg	cggttgaatg	tattctcaag	acagacaaaa	cagtgggaag	300
acactacgcc	aagctgctaa	ctccctggcc	attgcgggac	tctttcaccc	ccatggactt	360
tccgctggga	ttttaacaaa	catagtctct	ttctctctgt	tctttctctt	tctctctctc	420
tttctcttcc	tctctctctc	tctctctctc	tctctctctg	tcaatctcat	aatttctctc	480
tctcgtgcca	cgttcccacc	caacgctctc	tcgcccactt	ctactggggc	ccacttctct	540
tctcgtctct	tctgtctcaa	cgtgattgac	tttcttctgt	tgcccaggac	ttcttgccca	600
cgtgcgcctt	caaaacggta	agagctgcaa	ctgaacgtgt	ganacatggt	gcagataggc	660
tgagaggcng	cgggaaaaat	gcccataaaa	ctcaaagtac	tcnngccggc	ganacacgta	720
angggngant	ttcaagcaca	nnctggcggg	cgttactaan	tggattcgaa	cctccgggtac	780
caaaagcttg	ggcgtaatac	atgncaanaa	gccgttttcc	ngtnttaaat	ttgttnancc	840
gctcananat	tccanacaa	cnattacnan	gccgggaaan	ccaanaaagt	tgttaaaacc	900
ctgggggttg	ctcnaatgan	ttgangctaa	ntccnnttta	atttncnttg	cncnaangg	960
ccggtttttc	cattcgggaa	acctgtncgt	ncgaanctgn	atttantgaa	tcgggcaaac	1020
tccc						1024

<210> 12

<211> 957

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(957)

<223> n = A,T,C or G

<400> 12

actttttttt	tttttttttt	tttttttttt	tttttagctt	tattttttatt	gttgacacta	60
ttacagatag	aatgaccaca	accatattaa	caaaccaaaa	acctgtgcac	agaaacaaga	120
tgaagaaaat	atatcaagat	gttaaccaca	ctctttggat	ggtgaaaaca	tgggtgagtt	180
tctcttctac	atttctgtaa	cttcaaagtt	tctataatga	acacatttca	tatataatgg	240
aaatatatgt	agtaaagggt	gactacaaaa	acactagaat	gatgaccttt	caaggaaacc	300
gaaacaaaat	aaccataatc	ccacaacaac	cacacaacta	tttcttggtt	ttcatctttc	360

ttcccatctt	tgacatttat	gcatacttat	cactaacacc	ctaataatca	cagactagtg	420
cacagatcaa	gatgttaaca	gttaattggt	gttgggtggt	gggaatatgt	gtgaattttc	480
tttactgaat	ttccaaagtt	ttgtatgagt	atgtantata	tttgtaatgg	aaaatacata	540
cataagaatt	tantacaaa	nacaccaaag	attattttaag	gaatttgaga	caaaaatatt	600
tanccaaatt	cccacaatga	caacaccaan	tttaggtant	ttccacatct	ntttcaaatt	660
taanggcttt	angcacacat	attttaacac	tggtanccac	aagcngtggt	gcnccggaan	720
caannngntng	agggaaccca	ggtncaggga	tggtnancan	taagttgtta	anggggttgg	780
gaanannngn	aattttttta	aacanattta	cnttaanttt	ccaagttttt	ccnccgggga	840
anntttttng	gccaccaatg	ggggnccccc	nttatancn	ngtnanccgg	ggacattttt	900
tnnnnggggaa	atttnganaa	atttagagtg	ngaaangntt	tttacccean	agtnccn	957

<210> 13

<211> 1020

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1020)

<223> n = A,T,C or G

<400> 13

gtgngtctag	atgcatgctc	gagcggccgc	cagtgtgatg	gatatctgca	gaattcgccc	60
ttcgagcggc	cgcccgggca	ggtacccagg	attcaaaagt	catcttcccc	ggcgggaggg	120
aagggacgct	tatggagaac	ctcttaaaga	tattgtgagc	attctactca	ttacttaggg	180
aaagagagcg	ggtgttggtc	caactctggc	ttttgtgcc	ggtaggagtt	ggtcctgagg	240
ccgcccctct	gaccatactg	gacctgtttt	aagggttttt	tctaaaaaaa	tttttagattt	300
gtcaatctgt	gctcctgcag	gggatgctat	gtccaaatgt	cccaggattt	gtttttttct	360
gtctttcctg	agacattccc	tgcccagcta	cccaaggaat	ccttcaaacg	agcaaatctg	420
accataatct	ctatggtcag	attaaaatct	tccatggctc	cctattgctt	atgggacaaa	480
atcaaaattc	ctgagctctg	tctaaaaggt	gtttgatgat	cttgacctgc	tgactttgcc	540
agccttcttg	tcagactctc	gtgtcatgct	ccgcctagac	tatgagcctg	ctatttcata	600
ctatgtagct	ttgtaaagtc	ccagaaaatg	ctgggctctg	actcttttat	aactttacat	660
atactgttcc	atctgcctgg	aatgccttct	acttgtctgt	ccagcaaatt	ctcaactcat	720
ctcttaaggg	cccagcttca	attgccgcct	cctancataa	gtcttccctt	gatttcccan	780
gcagnaatta	nntcccgct	accccgggga	ntcccaatca	gtttgtgctt	tcaaaactga	840
tggnnngact	tccctgaaat	ttgggttacc	ncaaaacgaa	atgggtgaat	ccnnttcccc	900
cgggggggct	gcaattgcac	ccttttttaa	aggggaaccc	tgnaantccc	aatggnttaa	960
atttgacncc	cttaanggcn	tnanttcnat	tgagcaactt	naaaaggggt	tttttttttt	1020

<210> 14

<211> 1013

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1013)

<223> n = A,T,C or G

<400> 14

gtgtcgatgc	atgctcgagc	ggccgccagt	gtgatggata	tctgcagaat	tcgccctttc	60
gagcggccgc	cggggcaggt	acctcattag	taattgtttt	gttgtttcat	ttttttcnaa	120
ngtctcccc	ctacnagctc	acctgagata	acagaatgaa	aatggaagga	cagccagatt	180
tctcctttgc	ttctngctca	ttctctctga	anectaggtt	acctattttg	gggacccatt	240
ataggcaata	aacacagttc	ccaaagcatt	tggacagttt	cttgttgtgt	tttanaangg	300
ttttcctttt	tctnancctt	ttcctgcaaa	aggctcactc	agtccttgc	ttgtcantg	360
gactgggctc	cccagggcct	aggctgcctt	cttttccatg	tcccacccat	gagccctcna	420
ctagacagct	cantaagcct	ggcccttcat	tctgcgctgt	gttcttctc	ngtgaaaatc	480
caatacctct	tacctcctct	gcatgcaaag	attctcaagg	attgtcagac	ttcaaacgta	540
acagcagaac	caccagaagg	tccnataaat	gcagtagtga	ccttctcaag	ctgtcaggtc	600
tttaaataag	atttgggatt	taatgcnatg	tattttttaa	ggaaagaaat	aagagttgcn	660

agtttaaaaa	tgcatgtctt	ttagccaatt	cagaatcctg	ccccaaaact	tttttaaaaa	720
gtcaagacag	ataaagcttt	ggggganacg	gaaaaaaann	gmnnaaaaaa	anaaagtact	780
tcgggcggn	acnacgctaa	gggnnaattc	agcananggg	gggccgttac	aagnggggttc	840
nanncccgg	acnaancctt	gggggtttta	caagggcnaa	ancnggttnc	cggggntnaa	900
aattgttacc	cgcnaaaaat	tccanaaaaa	natncgaacc	cggaaancca	taaaantntn	960
aancccnngn	ggccnaaggg	agnnnaaac	ccnaataaa	tggnntggnc	cnt	1013

<210> 15

<211> 951

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(951)

<223> n = A,T,C or G

<400> 15

accctagggc	aaatactgag	cagggtaaaa	ttcccagaat	accactaga	agcgtggaat	60
atatcaatat	cctaggaaga	agattcagca	caccaaattt	cccattactg	ataacagctc	120
tgaaggcata	ataagaaagt	gagtgatcag	aagagcagag	aaatgacttg	ttccagtcac	180
tgccatcttg	tttacccttt	cagtggttcc	cttacccttt	tccccactgg	gcatacagct	240
catctctctc	tgagtccttt	tctgctttcc	tcctttgctc	taaacgttcg	agtttcaa	300
tcctcttacg	accagactta	tctcgaaata	cggtttcagc	atattgaaat	tcagctgcaa	360
aggaaaatta	tactcaaata	tcaggatcaa	aatcagaaat	aacattctaa	gagatcaa	420
caaccgcttg	ggattctaat	gctagataag	aacttctgca	gccagaccaa	agtagttcct	480
accaacatct	tggtgcatat	tggcactggg	cccaagaaat	ggcattttcc	tttttttttt	540
ttttgagatg	gagtcctact	ctgttgccca	ggttggagtg	cantgggcgc	gattttggct	600
cactgcaacc	tccacctccc	aagggtcaag	cgattctcct	gtctcaagcc	tcctgagtna	660
gctggggaat	acagggcata	cnacancatg	cctggctagt	tttttttttg	gaattttggg	720
tagagacagg	ggtttcatca	nggttngccc	aggcctggtn	cttggaactn	anagaccctc	780
aggntggatt	gccccaact	tccgggctac	caaaaggtn	ncgngggatt	acangcattt	840
anncaacn	gcctnngggc	naaaatggna	anttttcang	aagggaagc	agcnnngggg	900
atcccnngnn	naantttcac	caaggcctta	aaccagggnc	gtaaatttgt	t	951

<210> 16

<211> 1008

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1008)

<223> n = A,T,C or G

<400> 16

gtgcgatgca	tgctcgagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcggccgcc	cgggcaggta	cattacttgg	tgtaacatt	gttggcagtg	gtagcccctt	120
ttcagaaagc	aacttgctgt	aagtcagggt	gtccgttcca	accttcagct	agtgaagagg	180
tagtaacaaa	tggtaaacaa	gagaatgatt	gtttaaacct	atctgtggac	acttaatgca	240
actgtttaaa	aatgataatc	acgagttatg	tagcaacgtg	gaaatatatt	tacagaacat	300
taagtggaga	aagcaggaca	cgaaagtata	tttatactac	agttataact	caacagttca	360
tttatatgct	gttcatttaa	cagttcattt	aaacagttca	ttataactgt	ttaaaaatat	420
atatgcttat	agtcaaaaagc	tggttggttg	ttgttggttg	aggcttatag	ttgagcatta	480
ttttcttaaa	tttcttgaat	gttcttttat	gtagtgttac	taaaaagttt	atgatcacat	540
tttcatgttg	aacataattt	gaactcata	tcacacactt	ggaaaatata	gaaaagtgga	600
ggaaaaaaa	tcatacccc	ancatccaaa	gacatatact	ctcctcttat	cctgttcaat	660
cctggtttcc	ggtgcacaag	gtttatgatt	ataactgtgt	caaaatgtat	aatcaaaaat	720
gctgttacat	taccttggtg	gnantaaggg	taaatacctt	caccttaaat	ttttcaaaan	780
gttcccaana	ataaagggtcc	ggataacagt	ggtataagtg	tgtcccaatt	gggggtgcan	840
aatacattcc	cangngggaa	aatttnnaaa	tnaagttaaa	ttatttttaa	aaatttccaa	900
aattcccaan	anctaanaac	taangggnaa	aaacctngat	cgggntnccc	caaacnngtt	960

taantgnnac nccttgggaa aanaagnttt aaaaanggtg gcaaaaag

1008

<210> 17
 <211> 1024
 <212> DNA
 <213> Homo Sapien
 <220>
 <221> misc_feature
 <222> (1)... (1024)
 <223> n = A,T,C or G

<400> 17
 gtgnccttag atgcatgctc gagcgccgc cagtgtgatg gatattctgca gaattcgccc 60
 ttttnanagg nccgncgggc angnantctt cccnccntng ccatnannca cggnnanaaan 120
 cngcagtggc actaantntg agacaatctt ncaaaccagc ttcatgtcgc tncacttntc 180
 nnngtncaaag angagggccca ggangggaaa catcacantc gcgctaagnc cngntccggg 240
 nngtcagcat nngntctggt ncaanncccn cgnctcggtcc cctcatccta ctctgcctcc 300
 natgactttg cncctcagac ntentggaac naaggnttcc ngggggggcac accgcgtccg 360
 gccgnnnntg tctcggggcc acttggcgtg tgtgataaat caatcaagct gttnanntcg 420
 nacgagtctc nggtngcctg cananntaag cctcatcatc agagcctttc ctcaaaactg 480
 gantcccana tgtcatcagg ttntgttnt tttcagccan naggaagccc tcngcattga 540
 atccnagaac ttgggcatgg ttnaagatct acaagntnga atacgtgcc cgcnanaanc 600
 nttcaaccct aacaggaagg tnggattcaa ggaaggtgta anggnncatt annccacncg 660
 ggggnaccaaa gggagntana antanncatn nntttgggtt cggccnccga aggnnttaa 720
 cccccggaat tnnnttttng ntnaaggggg gnnnnnggna aatcccngtt cncatttgg 780
 gaaagggann ccttnccttn cnntnggcct ntaaaagnnt tancaanacc cgnnatnntg 840
 ttnangggccc cgnttttcaa nggggttaan nnttngggg aacccccnnc cccaaagnng 900
 gnnnaanggg ggaattccc aanaaaacng gggggnnccct tnnnnnangg gnttcngnnn 960
 cccnnaaagg nnncttgggg ggnnannann gnncaaaaaa gggttcccn nnnnaaattt 1020
 tttc 1024

<210> 18
 <211> 981
 <212> DNA
 <213> Homo Sapien
 <220>
 <221> misc_feature
 <222> (1)... (981)
 <223> n = A,T,C or G

<400> 18
 acgcgggaca gagagaaggt taagagcaac aagatgggag gcagctgcat ggaacctgtc 60
 ccactgagga agtaaaacag agttttactc ttgttgccca ggctggagcg caatgggtgcg 120
 atctcggtc accgcaatct ctgcctcctg agttcaagcg aggagcaacc ctacctgatg 180
 gactggactt ctgcctggat tggagtttga tcatgcctcc atatgggtgt ttaccaggcg 240
 tatgcattga acctgagttt gtctcttcaa tacaaggaaa atctctgccg cttagtgtt 300
 ttccaagaaa catgagcttc tgcttttcaa tgaggaagat actcagaagt catgttcgag 360
 cactccggaa aatgtccttg gagtttcaac atttcttttg tcttccacat ttcattttgt 420
 cctgattaaa gaggaagcca agttgctgtt tgtgtggcca tgtgagcagg canggagatg 480
 gtggctgcct agaagccaag agaagtggcc tcaagatgaa atctacctg ctggtactgc 540
 ccggggcggc cgccgggca aggtacnttt tttttttttt gttttttttt ggcaaaaagg 600
 ctgtaaagct tttttgggga gaaattttta tgggncaaan tttccaacac aggnagcanc 660
 cctgaaacca attttaagcg ggtccttccc ttttaaggct gttnaattgc cccttcaanc 720
 ttctcaagg ngtttttcac cctccnccg ggattttggg aaaggcccaa aantcctngg 780
 gnnanaaagg gacaatctcc cgggnttaaa aaccaattnt ncgggngna accnggttcc 840
 ctgggctann cncctttaan ggntnccggg gcccttttgn gggggnaatt ttcaaacggg 900
 ncctncattt tctnaggggg naancnccct tngggtcann gggncnann cccaagnctt 960
 caaanccnaa ntcttttggg g 981

<210> 19

<211> 980
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(980)
 <223> n = A,T,C or G

<400> 19

acttttttct	tttttttttt	tttttccgtc	tccccaaagc	tttatctgtc	ttgacttttt	60
aaaaaagttt	gggggcagat	tctgaattgg	ctaaaagaca	tgcattttta	aaactagcaa	120
ctcttatttc	tttcctttta	aaatacatag	cattaaatcc	caaatcctat	ttaaagacct	180
gacagcttga	gaaggtcact	actgcattta	taggaccttc	tgggtggttct	gctgttacgt	240
ttgaagtctg	acaatccttg	agaatctttg	catgcagagg	aggtaagagg	tattggattt	300
tcacagagga	agaacacagc	gcagaatgaa	gggccaggct	tactgagctg	tccagtggag	360
ggctcatggg	tgggacatgg	aaaagaaggc	agcctaggcc	ctggggagcc	cagtccactg	420
agcaagcaag	ggactgagtg	aagccttttg	caggaaaagg	ctaagaaaaa	ggaaaaccat	480
tctaaaacac	aacaagaaac	tgtccaaatg	ctttgggaac	tgtgtttaat	gcctataatg	540
ggtcccaaaa	atggggtaac	ctagacttca	gagagaatga	gcanaganca	nagggagaaa	600
tctggctgtc	cttccaattt	tcaatccgtg	atcccagggtg	aagctgggta	ngagggggag	660
ancattngna	naaaaatnga	aacaacanaa	nccagtttac	taaatnaagg	gaacctgccc	720
cngggcgggc	cnccaanggg	ccaaatttca	ancaacanng	ggcgggcccg	ttaccaantg	780
gnattccgaa	gcncgggta	accaangcct	ngngttnaat	ccagnnggnc	aaancnngtt	840
tnccngnggt	gnaaattggg	tancccgccc	naanaattcc	acancaacga	atcngaagnc	900
cgggcnagca	tnnangntta	aancccgngg	ggggcncaaa	aggggaatggn	nccanaccnn	960
attaaatnctg	gttgccctcg					980

<210> 20
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 20

cttgggtaccg	ngctcggatc	cctagtaacg	gccgccagtg	tgctggaatt	cgcccttcca	60
tcctaatacg	actcactata	gggctcgagc	ggccgcgggg	caggtattca	gcggccgctt	120
tttttttttt	tttttttttt	tttttttttt	attgntgaca	ctattacaga	tagaatgacc	180
acaaccatat	taacaaacca	aaaacctgtg	cacagaaaca	agatgaagaa	aatatatcaa	240
gatgttaacc	acactntttg	gatgggtgaa	acatgggtga	gtttctcttc	tacatttctg	300
taacttcaaa	gtttctataa	tgaacacatt	tcatatataa	tggaaatata	tgtagtaaag	360
gnggactacc	aaaacactag	aatgatgacc	tttcaaggaa	accgaaacaa	aataaccata	420
atcccacaac	aaccacacaa	ctatttcttg	gttttcatct	ttcttcccat	ctttgacatt	480
tatgcatact	tatcactaac	accctaataa	tcacagacta	gtgcacagat	caagatgtta	540
acagttaatt	gttggtgggt	gttgggaata	tgtgtgaatt	ttctttactg	aatttccaaa	600
gttttgtatg	agtatgtatt	atatttgtaa	tggaaaatac	atacataaaa	tttattacca	660
aaacacaaa	gattatttta	ggaatttgag	acaaaatatt	taaccaaatt	cccacaatga	720
caacactatt	ttaggtattt	tcacatctt	ttcatttaag	actttatgcn	cncatattta	780
acactgggat	ccacaagcgt	gtgccctgaa	accaggatan	nggggaaacn	ngatcaagat	840
gttagccagt	agtttggtag	gnggttgagg	aatatagggg	attttttnaa	aaaaatttac	900
tttatttnen	aaattttccc	cttgggnaag	ggattatggc	ncnccaangg	gngccccctt	960
aaanacnctg	gttttcngga	cctttttttt	nggggaccat	ttggaaaaaa	ttaangggga	1020
aggt						1024

<210> 21
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (1024)
 <223> n = A,T,C or G

<400> 21

nagnngcang	cncgagcgcg	cgccagtgtg	atggatatct	gcngaattcg	cccttcntan	60
cngnngncac	tnaatgcang	ngcnnaacca	tgataacccg	agttatgctn	agcanaggaa	120
ctatatgtac	agaaacatta	agtgnngaaa	gccnnacncn	anggnanntg	aatactacng	180
tnataactna	ncagaccatt	nanatgctgc	acatttaaca	nnncntncan	acagnanatt	240
ataannngnt	ananntatat	atgctnatng	accaaagctg	tngaggggtn	gccgttgaag	300
gcnnnnngnt	nagcattanc	atnttacnnc	acttgccctgn	cctntatggc	agggttacta	360
tctttgttac	tgatcacgac	atcantgcga	acntaanaacn	aacncnntat	nacacactng	420
mnanagcccg	aatcgngnng	gaacagtatc	ntntcncnc	cancncnaga	catntncnnn	480
cctcttatcn	tgancattcn	agnttctgtg	cacaggntna	tgatnntanc	ngtgncaaan	540
tgnttcttna	aantanttgc	cacatnacct	tngaggantt	atggannaan	actctcactt	600
taaanccnnc	aancgacccc	nanaanactg	tncgtntaac	agtgcanaat	gtgtgatttc	660
atagttntgc	acacacatnc	ccacnggaan	cacaggcgctg	tgactgaac	attntagagg	720
ntacctatct	gccgacacct	aacactacng	gtnacggcaa	gatcggaacc	tntaannggg	780
ttaacncaaa	cnctagggat	accnngggaa	atatgtggcc	caccgtttaa	acccccgaag	840
tgccngtacc	ccnggacatt	gttttcgtgn	cggtanttgg	gttaaanntg	ggntnaaaac	900
cctaattccc	cctggggggt	tgccactaaa	tttgaaggac	cttttggccc	tgccaaaatc	960
annaaccctg	gcncanaact	ttgggggganc	nggnnaggna	gggtnnccct	ttttttccga	1020
aggc						1024

<210> 22
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (1024)
 <223> n = A,T,C or G

<400> 22

gtgcgatgca	tgcnegagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcgggcgcc	cgggcaggta	cttttttttt	tttttttttt	tttttttttag	attccacata	120
tgagtaaaat	catgtgggtat	ttgacttgcc	ttttaaaaaca	cagtgaagaa	tctgtcttac	180
tttattcagg	gtaggagaag	ctacctgggc	tccccataaa	tgagggtgctc	catcccatca	240
tacagcccca	tcatattcag	tgcttcccg	atgacctcct	caggggtgca	gtagccctct	300
atgaagatta	tgcttaggat	aagtatgaga	atgccagtct	tgggcatgct	ctggacatca	360
ctcagcatcc	catcataggt	gaggcccagg	gagggtgacaa	ggacaaagga	gtggccagtg	420
ggatccactt	cctttacatc	aatgccaaaag	accagcagca	tgactcggga	ggcttcacta	480
aacaacaaaag	ggaagtggtc	ttcataattt	tttatgacac	tctccaagta	tttctgcctt	540
tgtgatcggc	tcttccattt	gataacttgaa	gagcagaaac	tgacccaaat	cagtcacctt	600
ttcatctatc	tcacttctgg	gtaaagactc	actgtctggc	aaggacctgg	taggggtgctt	660
gggactcccc	tccttttggc	tgcnnggagnc	ctcancagat	tgatctaattg	gaagggaac	720
aacgaccnna	ggggaaggag	cagggctatc	tngagcaacn	ctggggaagg	atttggggtc	780
nccatcatca	ngcagnaaac	tccctcccg	gggtnccttg	ggnanttaaa	gggatnccca	840
ggaaggagga	nggaggggaan	agggaggang	agggaaaaac	naggntngga	aaaagggaacn	900
cgnggggaaa	ttggggntta	tacaccgccn	ncnnnaannn	ggggngagnc	ngnngnccng	960
tcngngncnn	gnntccnntt	ggnggaagnn	ggnttctcnn	angggncggn	nnnnnnnnnc	1020
cnnt						1024

<210> 23
 <211> 948
 <212> DNA
 <213> Homo Sapien

<220>

<221> misc_feature
 <222> (1) ... (948)
 <223> n = A,T,C or G

<400> 23

acttttttct	tttttttttt	tttttccgtc	tccccaaagc	tttatctgtc	ttgacttttt	60
aaaaaagttt	gggggcagat	tctgaattgg	ctaaaagaca	tgcattttta	aaactagcaa	120
ctcttatttc	tttcctttta	aaatacatag	cattaaatcc	caaatcctat	ttaaagacct	180
gacagcttga	gaaggtcact	actgcattta	taggaccttc	tgggtggtct	gctgttacgt	240
ttgaagtctg	acaatccttg	agaatccttg	catgcagagg	aggtaagagg	tattggattt	300
tcacagagga	agaacacagc	gcagaatgaa	gggccaggct	tactgagctg	tccagtggag	360
ggctcatggg	tgggacatgg	aaaagaaggc	agcctaggcc	ctggggagcc	cagtccactg	420
agcaagcaag	ggactgagtg	agccttttgc	aggaaaaggc	taagaaaaag	gaaaaccatt	480
ctaaaacaca	acaagaaact	gtccaaatgc	tttggggaact	gtgtttattg	cctataatgg	540
gtccccaata	tgggtaacct	agacttcaga	gagaatgagc	agagnagcaa	aggagaaatc	600
tgggctgtcc	ttccattttc	attccgttaa	cctcaagggtg	anctggtaaa	aggggagaca	660
ttagaaaaaa	aatgaancaa	caaancaatt	actaatgang	tacctgcccg	gggcggccgc	720
aaagggcgaa	ntccaagcac	acngggcggg	ccgttacaan	tnggatttcg	aaccgggtac	780
caaancttgg	gngtaaanca	ngggnaana	acgggnttcc	cgggggtgaa	aantgtttat	840
ccgccccaaa	attccaaaaa	ancaatanga	aaccggaaan	cataaagtnt	taaaccttgg	900
ggggggccca	aangantgag	ccaaanccca	attnaattgg	gttggncc		948

<210> 24
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 24

taccgcccctc	gcattccctag	taacggccnc	cagtgtgctg	gaattcgccc	ttcctatctg	60
tggacactta	atgcaactgt	ttaaaaatga	taatcacgag	ttatgtagca	acgtggaaat	120
atattttacag	aacattaagt	ggagaaagca	ggacacgaaa	gtatatattt	actacagtta	180
taactcaaca	gttcatttat	atgctgttca	tttaacagtt	catttaaaca	gttcattata	240
actgttttaa	aatatatatg	cttatagtca	aaagctgttg	tgggtgttgt	gtttagaggc	300
tatagttgag	cattattttc	ttaaattttc	tgaatgttcc	ttatggtagt	gttactaaaa	360
agtttatgat	cacattttca	ttgtgaacat	aatttgaact	cattatcaca	cacttggaat	420
atacagaaaa	gtggaggaaa	aaaaatcata	tccccaccat	ccaaagacat	atactctcct	480
cttatcttgt	tcattcttgt	ttctgtgcac	aggtttatga	ttataactgt	gtcaaaatgt	540
atattcaaaa	tagctgttac	attacctttg	tgggaattatg	gttaaatact	ttcactttaa	600
ttttttcaaa	tgttccctat	aataatgtcc	tgataacagt	gtattatgtg	tgtctccatt	660
ggtgtgcata	atacatacc	agaggaaaaa	ttagaaaata	aagtaaatta	ttttaaaaaa	720
ttacctatat	tcccaacacc	taacaactac	tgnttaacca	tcttgatctg	nttctcttat	780
cttggttcag	tgcacacgct	ttgngaataa	cagtgggttaa	atatgtgtgc	cataaaggcc	840
ttaaatggaa	aagatgtggg	aaaaataact	taanaataag	ggtggccttt	ggggggaaat	900
ttggttaaaa	aattttgggc	tcnaaaattc	cnttaanaaa	acctttgggg	gggttgggna	960
ataaaaatnt	taanggangg	aatnttcccn	ttccantttt	nattccttcc	tcttcccaaa	1020
actt						1024

<210> 25
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 25

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gccgtcnaga cncatgcncn agcgnncgnc ngtgtgatgg atatntgcng aattcgncct      60
tccatcctaa taogactcac tatagggctn nagnnggcc aattncnga tngaangacc      120
acngccatat taacaaacca aaaacctgtg cacagaaaca agatgaagaa aatatatcaa      180
gatgttaacc acactctttg gatggtgaaa acatgggtga gtttctcttc tacatttctg      240
taacttcaaa gnttctataa tgaacacatt tccaaggaa accgaaacaa aataaccata      300
gnngactacc aaaacactag aatgatgacc tttcaaggaa accgaaacaa aataaccata      360
atcccacaa aaccacacaa ctatttcttg gttntcatnt ttcttcccat ctttgacatt      420
tatgcatact tatcactaac accctaataa tccagactag tgcacagatc aagatgttaa      480
cagttaattg cngntgggtg ttgggaatgn gcgtgaattt tctttactga atttccaaag      540
ttttgtatga gnntgtatna natttghtaan ggaaaatata tacatnaaat ttattaccaa      600
aacaccaaag attattttaag gaatttgaga cnaaatattt aacccaaatt ccacaatgcc      660
aacactnttt taggnatttt ccacatcttt tcntttaaga ctttatgcnc cccataatgt      720
aacactggta tcacaaagcg tgtgactga aaccagggat nnagggaacc gancaagatg      780
ttncnagnag ttggtangng gatnggaaaa taggnaattt ttaaannaat tnacttttat      840
ttcnnanatn tccctttggg gatgncttat gcncceccat gggggncccc ctttanance      900
ctggtaatca nggcctttt ttttggggaa cttttggaaa aaanttnaag gggaangttt      960
ttaccataa tttcccaaaa ggnanggggn acnctttttt ggaanatcct ttnggcncct     1020
tttn                                           1024

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<210> 26

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 26

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gtgcgatgca tgcncgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg      60
agcggccgce cgggcaggta cttttttttt tttttttttt ttttttttag attccacata     120
tgagtaaaat catgtggtat ttgacttgcc ttttaaaaca cagtgaagaa tctgtcttac     180
tttattcagg gtaggagaag ctacctgggc tcccataaaa tgagggtgctc catcccatca     240
tacagcccca tcatattcag tgcttcccag atgacctcct caggggtgca gtagccctct     300
atgaagatta tgcttaggat aagtatgaga atgccagtc tgggcatgct ctggacatca     360
ctcagcatcc catcataggt gagggccagg gaggtgacaa ggacaaagga gtggccagtg     420
ggatccactt cttttacatc aatgccaaag accagcagca tgcactcgga ggcttcacta     480
aacaacaaag ggaagtggtc ttcataattt tttatgacac tctccagtat ttctgccttt     540
gtgatcggtt ctttcatttg atacttgaag agcagaaact gcaccaaatac agtcaccttt     600
tcatctatct cacttctggg gtaaagactc actgtctggc aggacctgta ggggtgcttg     660
gactctcttc cttttggctg ctggagccct caacaagatt gatctaattg gaagggaac     720
caaccnaccg aangggggang gagcaggctn ttctgaagca ctctggggga aggatttttg     780
ngtnncnat catncagcan gnaaacctcc cncggggggt gccttgggna ttananggtt     840
agcaaggang gaggcagnag gaananggan gnangnaggg aaaaagangg attggaaaan     900
agggancctn ggtgggaaat tgggggtttt nagcaatccc cnccaaaaaa ncnaaggggaa     960
ccctgttcaa cccncanggc cnggnttcca cttttggaat ttgaaanttt cctcaaggaa     1020
ngaa                                           1024

```

<210> 27

<211> 935

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(935)

<223> n = A,T,C or G

<400> 27

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acgcgggggtg ggggggggtcc tgggtctttgg cttctcgact cggctctggt togcacagca      60

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acatgtcgcg	gcctgtcaga	aataggaagg	ttgttgatta	ctcacagttt	caggaatctg	120
atgatgcaga	tgaagattat	ggaagagatt	cgggccctcc	cactaagaaa	attcgatcat	180
ctccccgaga	agctaaaaat	aagaggcgat	ctggaaagaa	ttcacaggaa	gatagtgagg	240
actcagaaga	caaagatgtg	aagaccaaga	aggatgattc	tcaactcagca	gaggatagtg	300
aagatgaaaa	agaagatcat	aaaaatgtgc	gccacaacag	gcaggcggca	tctaaagcag	360
cttctaaaca	gagagagatg	ctcatggaag	atgtgggcag	tgaggaagaa	caagaagagg	420
aggatgaggc	accattccag	gagaattccg	gcagcgatga	agatttctta	atggaagatg	480
atgacgatag	tgactatggc	agttcgaaaa	agaaaaacaa	aaagatgggt	aagaagtcca	540
aacctgaaag	aaaagaaaag	aaaatgccca	aaccagact	aaaggctaca	gtgacgcca	600
gtccagtga	aggcaaaang	aaaattnggt	cgccccacag	cttcaaaggc	atcaaaanggg	660
aaagaatccn	tctccaaaag	aagaaagatg	aggggaaccgg	aaaaccccc	agaaaaggaa	720
aacatctana	agccccccaa	cccagaaaatc	tggggataaa	ggggctgaaa	aataaacccc	780
cntttgggga	agnttttaaaa	ttatgaangg	nctggggaaa	aaattttttt	aaaaaannnn	840
nnnnnnnnna	aaaaaanttt	cctgcccggg	ggggcgccnc	naaaggggga	anttcaanaa	900
aaangggggc	ggtttaaaaa	ggggtttcca	ccccn			935

<210> 28
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 28						
cttggnaaccg	ccctcggtac	cctagtaacg	gccgccagtg	tgctggaatt	cgccttccct	60
atctgtggac	acttaatgca	actgtttaaa	aatgataatc	acgagttatg	tagcaacgtg	120
gaaatatatt	tacagaacat	taagtggaga	aagcaggaca	cgaaagtata	tttatactac	180
agttataact	caacagttca	tttatatgct	gttcatttaa	cagttcattt	aaacagttca	240
ttataactgt	ttaaaaatat	atatgcttat	agtcaaaagc	tggtgtgggt	ttgtgtgtgt	300
aggcttatag	ttgagcatta	ttttcttaaa	tttcttgaat	gttctttatg	gtagtgttac	360
taaaaagttt	atgatcacat	tttcattgtg	aacataattt	gaactcatta	tcacacactt	420
ggaaaataca	gaaaagtggg	gaaaaaaaaa	tcatatcccc	accatccaaa	gacatatact	480
ctcctcttat	cttgttcatt	cttgnttctg	tgcacaggtt	tatgattata	actgtgtcaa	540
aatgtatatt	caaaatagct	gttacattac	ctttgtggaa	ttatggttaa	atactttcac	600
tttaattttt	tcaaagtgtc	cctataataa	tgctctgata	acagtgtatt	atgtgtgtct	660
ccattgggtg	gcataatata	taccagagg	aaaaattaga	aaataaagta	aattatttta	720
aaaaattacc	tatatccccc	aacacctaac	aactactgnt	aacatcttga	nctggttcct	780
ctatcttggt	tcaagtgcac	accgcttgng	aataacaagg	gttaaaaaatg	ngngccataa	840
aggtcntaaa	atggaaaagg	atgtgggaaa	aaatnacctaa	aaataggggt	ggccattggg	900
gggnaatttg	ggttaaaaaa	tttgggctcn	aaaatncctt	aaaaaaaaanc	ctttgggggt	960
tttgggaaaa	aaaaatttta	ggggagggaa	ttttccattt	ccaaatntta	ntccttactc	1020
ntta						1024

<210> 29
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 29						
taggatncat	gctcgagcgg	ccgncagtg	gatggatata	tgcnagaata	cgccttcca	60
tcctaatcag	actcactata	gggctcgagc	ggctgcccag	gcaggtgcta	acaaacccaa	120
aacctgtgca	cagaaacang	atgaagaaaa	tatatcaaga	tgtaaaancac	actctttggn	180
tggtgaaaac	atgggtgagt	ttctcttcta	cntttctgcn	antncanagn	ttctataatg	240
aacacatttc	atatgtaatg	ganntntntg	tagtgnaagg	tggaactaccg	gaacactaga	300

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atgatgacct ttcaaggaaa ccgaancaaa ntnaccntan tcccacaana accacannac 360
tattncntgg tnntnatggt tcttcccac tttgacattg atgcntactt aggactancg 420
ccctaataat cccagacttn ggcacagatc aaganggtaa cnggtgattg gaggtgggtg 480
gccggaantt ggggtgantg ttntttatgg anttnccann ttttggtang ngattgnnna 540
aaattngaana nggaaacnct tacttnaant tgnttaccnn aacnccnagg atnttttaag 600
gattnggggc cnaaattttt acccaaatte cnncaangcc ancncgtgnt aagtcatttt 660
caaanntttt tcncttaaag accttaagge cccctaaggt aacctgggaa tanaaggggg 720
ggcacntggn accaggntcc nagggaaacng nnccaagant tttcccctnt ntttgtttgg 780
gggttgaggaa atnnnnngnaa attttttaaa ggtaatncac ttaatttgcc aaaggaattc 840
ccttnggggg nggnnttatt gencacccat gggagacccc cntaaggccc cnggaataag 900
ggcctttttt tttnggggacc atttgggaaa aattttaang ggaaggcnnt ttgnaccctt 960
aatttcccca aggnaaangg aaccnccnt tttgganatt gcatttttngg ccccgttttt 1020
aagg 1024

```

```

<210> 30
<211> 1024
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 30
gtgcgctcta gatgcattgct cgagcggccg ccagtgtgat ggatatctgc agaattcgcc 60
ctttcgagcg gccgcccggg cagggtacttt aattttgctt gttcaaatga tctacactta 120
cattttgcaa atcttttttt taaattttt taaattttat attttttttc cagccaactc 180
aaggccaaaa aaaattttctt aatatagtta ttatgcgagg ggaggggaag caaaggagca 240
caggtagtcc acagaataag acacaagaaa cctcaagctg tgagggtcaat ttgtaattaa 300
aagaatacta agattagatg aacacaacac tcagaaatac tctaggagag ctgaaaaaga 360
aggaacagat gttaacaaaa caaattaagg ctgctgggga acctgagtcc atgttaagct 420
tgggttgact gtaaagaatt ttttttttt taatgcaagt tagacatgga gttagagggt 480
cagataaata acgaagagaa ttaagttagc gatagaaaaga tctaaggata ctagctcctg 540
ggcacctagg gtgcaaaactg acttgtggca gcataagctg atgctgcaca ggggacccaa 600
gccatgttgc tacttgtcac ttaaggcang aagcgcacaa aggaagtgat gaaagggtat 660
tagcctgcaa cattatttac agcatganag cctctcctac ggtccccaac cttcattagg 720
cactactggt gattcaagtg aatgggttgt aaccantcc ttaaaaggca aaggatgta 780
ggantttaca gggaaaaaag cttccggggt tttancaatt caccaatcan caaaccacat 840
attgaagttt ggttaaaaaa aaaaaanann anaaaaaagt nccctcggcc gngaacanc 900
cctaaggggg naaattccag canactgggn gggccgntta caaaggggtt cgaaccncgg 960
taccaaacct tgggggttaa ncaaggggca aaancggggt ncccgnnngg aaaattgttt 1020
nccg 1024

```

```

<210> 31
<211> 1019
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1019)
<223> n = A,T,C or G

```

```

<400> 31
gtgngatgca tgctcgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg 60
agcggccgcc cgggcaggta ccatgctgac ttcttggtat cttttaaggc ctaattttcc 120
cttccttgag attactgtag tgtgttccag ctaattttcta tttggaaacg agttggaaca 180
gctgaaaact aggtattatt gaaggcaaaag cagcctcacg tcagtttttt atcagctcat 240
ttgggaagtt tttttttttt ttttttttta attaattaga aagtaggctg ggcacgggtg 300
ctcatgccta taatcccagc acttggggag gccgaggatc tcctctctgg tggatcactt 360
gagggcagga gttaagagac catcctggcc aacatgatga aacctgtct ctactaaaaa 420

```


tacaaaaagt	agctgggcgt	ggtggcctac	tcttacaatc	ccagctactt	gggaggctga	480
ggcaggagaa	tcacttgaac	ctaggaagca	gaggttgag	tgggccaaga	tcacaccact	540
atactctagc	ctgggcgaca	gaggtgggga	aaaaagtagg	accctgtcc	tatattcagg	600
tttttctcac	atatatgaac	ccatctaaat	tctacgttgt	taaagggtanc	ttaggttaat	660
taagtccata	cttattttaag	accaatatgg	ggtgaaatgg	gatttttttt	taaaaatcct	720
acagntnagg	ctttccnact	ttccttcnaa	atgaggaaaa	aaagggtgaca	aaaattcaag	780
tgtaaatgtc	ccctcctggg	gaaanaggtt	tanaaaaaaca	acaggctcaa	ccttctgaac	840
tnctaacaan	ttcccttnga	aanttaacga	anccattaaa	atcnnngattt	taaaagagga	900
aaanaaaaaa	gttcctcggn	cggnnacaan	cctaagggng	aaattccaca	aaaanngggg	960
ggcctttana	aagnggttcc	nacccggtac	aaaaccttgg	gnttaaccan	gggccaant	1019

<210> 32

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1024)

<223> n = A,T,C or G

<400> 32

accgccctcg	natccctagt	aacggccgcc	agtgtgctgg	aattcgccet	tggtgttggg	60
tggtgggaat	atgtgtgaat	tttctttact	gaatttccaa	agttttgtat	gagtatgtat	120
tatatattgta	atggaaaata	catacataaa	atttattacc	aaaacaccaa	agattattta	180
aggaatttga	gacaaaatat	ttaaccaa	tcccacaatg	acaacactat	tttagttatt	240
ttccacatct	tttcatttaa	gactttatgc	acacatattt	aacactgtta	tcacaagcgt	300
gtgcactgaa	acaagataga	ggaaacagat	caagatgtta	gcagtagttg	ttaggtgttg	360
ggaatatagg	taatttttta	aaataattta	ctttattttc	taatttttcc	tctgggtatg	420
tattatgcac	accaatggag	acacacataa	tacactgtta	tcaggacatt	attatagggg	480
acatttgaaa	aaatttaaagt	gaaagtattt	aaccataatt	ccacaaagggt	aatgtaacag	540
ctattttgaa	tatacatatt	gacacagtta	tatacataaa	cctgtgcaca	gaaacaagaa	600
tgaacaagat	aagaggagag	tatatgtctt	tggtgtgtgg	ggatatgatt	ttttttcctc	660
cacttttctg	nattttccaa	gtgtgtgata	atgagttcaa	attatgttca	caatgaaaat	720
gtgatcatta	aacttttttag	taacactacc	aaataaaggaa	ccattttcaag	aaaatttaag	780
gaaaaataat	gctcaactat	taagcctacc	acaaaccaaca	cccacaacag	cttttggtgact	840
attaagcnta	tatatatttta	acnggtatta	atggaaactgg	ttaaatgaac	tggtaaaagg	900
aaccgcatnt	taaatggact	ggtgnggtta	taaccggtgg	tataaaaaana	cctttggggc	960
ctgggttttc	ccttaanggt	ctgnaaanat	atttttcnct	ngtccanacc	ncgggatatc	1020
aatt						1024

<210> 33

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1024)

<223> n = A,T,C or G

<400> 33

gccntcnaga	cncatgctcg	agcggncgnc	agngtgatgg	atatnnngca	gagncgccc	60
ttccanccna	atacgacnca	ctatagggcn	nnnnnnntng	gcnnctttgh	tgccctccn	120
ctcgnataat	anctatatta	acgaaattgt	nctggccttg	agttggctgg	agagaaatat	180
tnngagnnnn	accngtnnnn	ntnngnnatc	ngtaaaantgt	aanagtagnt	catttgaaca	240
agcaatnatt	naantaccca	ctggnggaaa	ngngnctgaa	tcttactctt	ntggatctgc	300
aggantaggg	cttgtnagta	tgtcaaanat	gcnnncagtg	tcaangttta	ngccnattgt	360
agancngta	gcaggaancn	acnntgangg	ancnncagaa	nggagncctn	anacatncc	420
agatntacga	ggngagagga	gacanacnga	gaaagacacc	ntaggnncga	nctgnagaag	480
gncaggattc	tgagaatgaa	ntgcncggnn	agtcnganc	agattggaaa	aggagnttct	540
ganggnatgg	tgacacnngag	ggctgacnng	tangaggnac	tgntgttgga	acgnacatag	600

cgaaagntgn	tgngcagtga	ggattactac	atgnngaaag	gactcttgaa	acgaggaact	660
aactgtgatg	ncanggctga	agtttgggcn	nccatacttt	gnagggttaca	attnttngca	720
gtggncgncc	cgtttaana	gccnttttga	tggaantca	aggggtgnncg	gtacnacctt	780
ccntttagg	nacaaggcnt	tnccgantgg	gtngccagga	agaanganng	ccnnancctt	840
annngnggg	ccccttaatn	gcacnggggtg	aacaatgcna	accctcgggt	tattggaacn	900
accngggana	anatggttac	cgaaccatta	ngtgggggna	aaccgggacc	ccggaaggct	960
tttttncct	cngggtaaaa	acttaacaga	ccnatttttt	gcccgccttt	taacangtct	1020
tttt						1024

<210> 34
 <211> 982
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(982)
 <223> n = A,T,C or G

<400> 34	
acaacaatct	aagcaaatct
caaatacaac	atacttgtaa
ttagaacaca	atgcaatgac
ttgatttttag	caagaactag
acacttaatt	tggtaaaaga
aaccaaacaa	tgcattatat
tgaatactaa	gctaagttac
cataattag	cttacaatt
ctcaaatttc	acaactactt
ttgaacatct	aaattttaac
ctaaattttt	taattaaatg
cctgttcaac	aaagctaatt
ggaacaaaca	catttatgta
aatttacatt	ctagaatacc
agggtaaaca	aggagacgtt
attcaaagat	gaatgagaaa
gttctattct	ttttcatcat
ttgtgtgatc	aggttgcaaa
ggacatgctc	tttctcgat
gaaactgatg	tcgaattag
ggcagagggtg	gaagaaccaa
gcacctttct	gggggctcga
gcagccacca	cttttctgta
agtgccctggg	aactgtct
gcttttagtcc	gcaccatgtt
caaacaagaa	gagaggagag
gagagaacga	actgacttcc
cagccgaagg	tgtttctactg
ggacaaggcc	ccgcgttacc
tgcccggggc	gggcccgtcg
aaanggcgaa	ttccaagcaa
cactggggcg	gccgtttacn
nagtgggatt	cgnggctcgg
gtanccaaggc	ttgggggtaa
tcaaggggca	atagccgggt
ttcccngggg	tgaaaaatgg
tnntccngnc	acaantccca
nacaancatt	ccgaagccgg
gaancntnaa	agtgttaaaa
ncctgggggt	ngcccaaatg
angtgngct	naactcccat
ttaaattngc	gnttgccccc
nanngccng	cctttccaat
tnccgggaaa	cctgttnctg
gccaaagtcg	cantaaagaa
atcncggcna	antccccggg
gnaaaggggc	ggnttgccgt
nttggggggc	gncttccggn
tttcccgggc	caaagggann
ng	

<210> 35
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 35	
cttggcccg	cctcggatcc
ctagtaacgg	ccgccagtgt
gctggaattc	gcccttccat
cctaatacga	ctcactatag
ggctcgagcg	gccgcccggg
caggtataaa	atttaaaaaa
tttaaaaaaa	aagatttgca
aaatgtaagt	gtagatcatt
tgaacaagca	aaattaaagt
acccactggg	ggaaatgtgt
ctgaatctta	ctcttctgga
tctgcaggat	tagggcttgg
aagtatgtca	aagatgcagg
gagtgtcaaa	gttttaggaag
attgtagagc	tgagagcaag
aagcagaat	gagtgaagca
aagaaggag	tcctaataca
tcaccagatc	taggagggga
gaggagacag	acagaagaaa
acaccagagg	caagaactgt
agaaggccag	gtttctgaga
atgaattgag	cggggtgtcc
tgagcagttt	ggaaaaggag
tttttgatgg	tatgggtgag
gtgagggctg	gctgcatagg
aaggactgag	gttggagcgg
acatcgggaa	agctgagggg
cagtgaggtt	tactacatgg
gaaaaggact	cttgaaacga
gaatcagtg	tgatgtcagg
gtgaactttg	tgggtacatt
acttggtgtt	aacattgggt
gcagtggtaa	gccccttttc
agaaagcaac	ttgcttgtaa
gtcanggtgt	ccggtccaac
ctttaactag	tgaaaaggta
gtaaccaatg	gtaaacagg
agaatgattg	gttnaaccct
atctgnggac	acttaaagtc

cactgggttta	aaaatggnaa	tcacgagttt	tgtancaacc	gggnaatat	atttaccgga	840
acctttantg	ggnaaaagcc	ggncnccnaa	ggntttttat	tncttcnggt	tttaaccctta	900
acaggtncaa	tttataatgc	cgggccattt	aacagggtcat	ttttaaccgg	gtcnnttttt	960
accnnggtta	aaaaanntnt	atgcctttag	gncaaaanct	ttttnngggg	gnttnttggt	1020
nang						1024

<210> 36

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 36

taccgcctcg	natccctagt	aacggccgcg	agtgtgctgg	aattcgccct	tccatcctaa	60
tacgactcac	tatagggtc	gagcgccgc	ccggggcagg	tagcaaagt	tgtggcattc	120
ctcctcctcc	tcaagtcttt	acccgaaact	acttcccaag	agaggttgct	cttcccaaag	180
aatcacctgc	cctgggacca	tatggggcta	ggctgagggt	caggagccaa	gagcctgggtc	240
ccaactctgt	ctgtggctta	ctgtgagacc	ctaggcaagt	tgcttaccct	ctctggggct	300
caaattcttc	ctctttgaaa	taggaataat	aacttcatca	ctagaattct	tcacctgggt	360
gttgtgaagt	taatcagaat	aaatgtggag	ataatacatg	aatgagcgta	cagaatatta	420
tttggctggt	ctgtggcatc	gatatagggt	atgatagtga	caatagtgtc	tgtcattgta	480
ttccacacca	cttcttcctt	cagctaaagc	aggaaaagaa	aggaggtaag	tctctctgtg	540
ttttttcttc	ctttcccaaa	gccactttg	ttaccttcc	tggttgctgg	atgagaaatt	600
agtcagaggg	tcagagagga	cctcaacttc	atatgcttta	aatagagcat	atgcaatttt	660
aaaccatcct	cttaaccaat	ttttcttttc	ttttcagttt	ttccccagtt	atacttccac	720
atgatacacc	agagaaggaa	gaccccttct	catactgaag	aacacaagaa	atttgaatag	780
ttcctgcttt	ctgnaccttc	caccaaaaca	aacttttcaa	tgatccaaaa	aactggccttt	840
gnactgggga	gtcacggaat	gggcccggct	ccangganca	tgccggnnng	gcctttgctg	900
ngtcgggcct	gtgggtggcg	cggaaaggna	accgggggca	tggnntnccg	agcctgggtc	960
tgccccccng	ggncatggtg	tggaggcaaa	gaancctgaa	gtccccacng	gccccgggga	1020
agna						1024

<210> 37

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 37

cttggcacccg	cnctcggtac	cctagtaacg	gccgccagtg	tgctggaatt	cgccttcca	60
tcctaataacg	actcactata	gggtctgagc	ggccgcccgg	gcagggtgaat	tcagcggccg	120
cttttttttt	tttttttttt	tttttttttt	acagggcggc	tttttggttt	atttctgctt	180
ttttcccttt	ttcttaaaaa	aattaaataa	agttctcatt	atttcccaaa	tatacatcaa	240
atgagttttc	atgcaaagca	gcagtcacag	aggcagaact	gtccccagct	cgtgcctntc	300
ggcttgaaga	accaccttnt	cccggccccg	ggttctctgg	ngttctcact	gaggatggac	360
gacgcccact	gtctntccca	gctggaactg	gctatgacga	aacttggtctg	gcgtagggag	420
aggagtccct	ccctntcccc	aggatggggg	ctcaggggac	agcaagctct	ggggcctgat	480
ccccatcact	tgnccttcca	tctgagactc	ccagtgtgac	agcttgagca	gggtccctctt	540
cccaggaatg	cgaggctcct	cctctcagct	ctcaatggac	atggcattaa	tgagctgctc	600
cacctataaa	gccagccgnt	gccgcccgtg	ctgctcatcc	tgctctaggg	ccccgatgag	660
ctcctcacta	tacttgctga	cataggagta	gatctcattg	ggggcactca	acatggtgaa	720
actccacggg	gtgcaggcgg	gactgctcgg	cgagggtagg	cattcatggc	ctgggtcactg	780
gatggctggg	aaccttggcc	aaggctgcgg	nagnatcttt	ttcccccagc	tnttggnaac	840
ttgggggaagg	cccttgggca	taaaaagcaa	cttggttgga	anggggaggn	ctttgccccaa	900

ccccgggggct ttggacgttg gaacaagagt nccttgaagg gtttgggncc cccncaaaaa 960
ngcangcntc cgggaaaagcc gcccttgggg gtgncaaaac cccnaactgg ggggttnttn 1020
aanc 1024

<210> 38
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 38
taccgccctc gcatccctag taacggccgc cagtgtgctg gaattcgccc ttccatccta 60
atacgactca ctatagggct cggcggccgc ccgggcaggt gccgcttttt tttttttttt 120
tttttttttt tttttgcttc acaactgttt attttaagct gaaacttcaa tattcattga 180
ttacctataa taatagttac tcataaatgt agttaataat taaatataaa aattattatt 240
tttacattta tataaatctc tgaaaaatac caagttttga gagatagagc aagaaattgc 300
ttanaaaatt gcaggaagcc tgaanaatct cagcatcagt caaagcaggt ncaacaaaaa 360
acaattttag acattcattt tttgctttta gagtgcttaa aataaatgat cacagaatga 420
ataactgatg tatggcaaaa atgagtttaa aactatgtaa gctccaaggc cccaatgtgt 480
ataagaattc tttggaagga ttttgaagga ctgtaaatgt tgcaataaaa agtaaaaact 540
agtagttagg caatgngttt taaactatag ngtcacctac tgnctctctg gtgcctaact 600
gnattcttca acatcttctt tccctttttg attagaaatc ctggctctacc tcaaaggttt 660
tgcattgntt tctagggaca tcagcaaact ggtagaccat atgagaaaca gaaataaaca 720
gtaatattat ctttagaaat taagcattat gtacncagtg agaaatggat tgacttgata 780
gaccttaaac ccctttcttc ctttcacacc cttntagna ccacctaang gtatccggat 840
tggggatggg gcccncntnt ggtaatcccc cttnagtcag gacaggggcc cctaagggcc 900
caattttntt tcgaattaga gaaatncccc attttttggg ggggttgcaa gtnttanccc 960
anggcttgca aaggcttntt tttgaagana cncccaaacc cggggncctn tttttcngga 1020
atca 1024

<210> 39
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 39
tcgcccagc agnangcncn agcggncnnc agtgtgatgg ttatngtggn gnnttcgcnc 60
tnccatncta atnctactca ctataggggn cntgngncnc nnggcagtn ntnacnnntn 120
anngtgtaa ctgatatcat ntcncnnana ccatggttac atnnanntag gtctcnnang 180
nataccangc tntgagagnt ngaccnggaa ntcgnttnga aannttgnc gangcngat 240
caatatccnc atcngncaca gcgntccgc aagctgacaa tntcgnanat tnattnttgg 300
tttannganc nnttacangn atggnncccn gagatgcag nnggagtagt gcaaagatgn 360
ntgtaaaact atgtaagctc naaggcccca atgtgnataa cagttcntgg nanggantnt 420
ganggantgt aagngntnaa nntnaangnn anannnaaga ggtangncat gagccnaaa 480
ctgtagnmnt anctacagng cttanggcgc ctacctggga caggcnacgn cttcattaac 540
cttttgatta gaannacggg ggtaacncac nggttnngca tgggccagta gngcattgn 600
ccngcngggc aaccatagc tngncnaaaa taaacgggtg ttttanctca nnagattaaa 660
gctttttggc cacaggggna aaagnatggc ttganaggcc ttaaaccctt gtactcngtn 720
cacccttttn gagaaccncc taacgggatc tggaaatgng atggccccc tttgggaaac 780
nccctanaag anacctcngg ngacccttg nggcccattt tgangtttag nacngcaatt 840
tncccathtt tngngttttt gccaacctta agncatnggc tggcaatgga ntgnnttttc 900
caatagaanc aaaccccggn tnttttttgg ggggnatcag ggttaagggn nttggcaaaa 960
nnaaannggc ncnnngnaaa aatttttccc nggtntatcn aaanncccca aagcttttng 1020

caan

1024

<210> 40
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 40
nggacgcacg ctcgagcggc cgccagngng atggatntng tgcagaantc gccctttcat 60
gcctatgac ccngcacttg gngaggccga ggatctctc tctgggggat cacttgaggg 120
caggagttaa gagaccatoc tggccaccat gatgaaacce tgtcnctact nnacatacag 180
gaagnagctg gncgngntgg catactctta caatcccagc tacttggnag gntgangcag 240
ganaatcact ngnacctang aagcagaggn tgcantngnn ccaanancac accactatac 300
tntagcctgn acgacagagg tgntgataan agcnggaccc ctgactatat ncaggntttt 360
ctgacntnna nnanencatc taaatnctac gccgtntgag gtgcgntagg ttangtagnn 420
natnctnatt tatgaccaat atgntgtnan acggcntnnt gntnaaaant tntacagnan 480
ggcngnctac ntttcttata atgnggaaaa cgggtgntga natncangtg nmnngtccn 540
nttnttggna agaggnntng aaanncanca gtgcacctn tgaactctac nagnagcttn 600
tgaagctaac naagcnttaa natnagatgg cntgntagga ctgtacnngc anggaaagat 660
tcacaaaact ggacattctt naccgagata ngntcttgc ttaaccgggga ggaennntcc 720
aaggntgtnt naagagggac agtcagctta gtnntgctng ggtagagaaa accangactt 780
natntgtgag cttgatnggc agaacctggn nanccttgga agagcntnga ttgnccngat 840
ccctgaaagg gcnnncttna ccctatcggg gaccttnnna acctcttang tggcacgcaa 900
ggcacnaacc nggcncttt caagaatcnc nggaatcnag gccctttct tgggntnanc 960
cngnnnncc cgttnagncc cncgggnaaa anntcttggg nntttccaat cccngngggn 1020
nttt 1024

<210> 41
<211> 1004
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1004)
<223> n = A,T,C or G

<400> 41
ggtnnnnntta atcatogccn gcttgggtacc gagctcggat ccctagtaac ggccgcccagt 60
gtgctggaat tcgcccttag cggccgcccg ggcagggtact tcccaccact ggaaatgtta 120
gcataaaaaga acttgagag gaaaaaagta ttaacaaaac tgcagtctgc actctttaaa 180
cctgtttaag gctcttcac cgggttagca aaagggtgta atgtaatgtg atggaattta 240
aaagttttat gagaccaggc acagtggctc acgactgtaa ttccagcagt ttaggaagcc 300
gaagtgtgca gatcacctga ggtccggaga ccagcctggc caacatggtg aaacctgtc 360
tctactagaa atacaaaaat tagccagggtg tgggtggcggg cgctgtaat cccaactact 420
caggaggctg aggctagaga atcacttgaa ccagcaggc ggaggttgcg gtgagtcgag 480
atcacgccat tgcactccag cctgtgcgac aagagcgaaa ctctgtctca aaaagatttt 540
ataagaaagc agagcttttc cttgaagctc ttttgaagtg gtagcttaat tagtattttg 600
ntgaaaatac tttaaagatg cctagtgaac agcctactaa agtgcgtgta aaaatggggt 660
ttanaacatt ttattttcan gctttatggc ctattttcca ttngggcaag tgcaaaacta 720
ccctggccca aangaagggc agagaacata attacctctt anggcacatt tcattctttg 780
cagctttgct taatccagtn gctaagttct ttacctnaac cctgnaggna ttgaacntta 840
ttncatttn ngnaaaaggg tcacctntt nnnacaatnt tncannact ttttnggaag 900
ttanccnttg gccttaaaan ttnaaaantc cntntggnt tccctttatn ccccnangg 960
gmnntang gnttgattt ttaanggncc ttggccngaa cccc 1004

<210> 42

<211> 1020
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1020)
<223> n = A,T,C or G

<400> 42
nnnnnnnnnnn nnnnnngattg ggccctctag atgcatgctc gageggccgc cagtgtgatg 60
gatattctgca gaattcgccc ttagcgtggt cgcgcccgag gtacctttga taattcctag 120
acctctattt tcattctgtg tattaatgtg aataacagat ggatatttta atatttaagg 180
cagatggtaa actttcctat aggtcttctg agacttcgtc ttataggctg aacaccattc 240
acaaaatgta ataatgcttc attccttcag gttgaggtaa agaacttgag caactggatt 300
agcaaagctg caaagaatga aatgtggcct aagatgtaat tatgttctct gcccttcctt 360
tgggccaggg tagttttgca cttgacacaa tggaaaatag gccataaagc ctgaaaataa 420
aatgtttctaa accccaatct cacagcactt tagtaggctt ttcactaggc atcttttaaag 480
tattttcaac aaaatactaa ttaagctacc acttcaaaaag agcttcaagg aaaagctctg 540
ctttcttata aaatcttttt gagacagagt ttcgctcttg tcgcacagge tggagtgcaa 600
tggcgtgac tcgactcacc gcaacctccg cctgctgggt tcaagtgatt ctctagcctc 660
agccttctgg agtaagttn gaaacaggg gccccgncaa cacacctggc taaattttgn 720
atttctagta naanaccagg ttttnancat gttggnaaag gctggtcttc cggaaccttn 780
angtgatctg gacaccttg gntttcctaa actgggtgga aattancagc gggaaccnct 840
ggggcctggc tcattaaacc tttaaaatnc cttncattc anttncacc ttttggtaac 900
cccgnatgaa aacccttnaa ccgggtttta agnangcnna nnngggnnat ttgtaaaact 960
tttcccccnt tccaagtent ttaagccaan nntttnceng gnnnnnggan ccctnccggc 1020

<210> 43
<211> 1020
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1020)
<223> n = A,T,C or G

<400> 43
ggagnnnntt aaacgccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60
gctggaattc gcccttagcg tggctcgccg cgaggtaact tttactgctt tgtcttcaag 120
gcctagtgtg ataattaaca tctagtatgt gtttgatgga tagccaattt ttgcttcatt 180
ggtatgttgt taccacagtc attggtagag tcaatatatg aatgaagaaa gtataacaaa 240
tttgccctct agtagagtag tttttttttt tttttttttt ttttggtttt tttttttttt 300
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360
tttttttttt ngnnnttttn ncnttttttn aannaaaaan cggcccnann accnnccnnc 420
nnnttttttt nnnggcenn cengnttng gggnggggn cnttnngggc cnnnggncn 480
cttttttccn naagggtttt ggggttttng gggnaaant tnggnncnan nnnggccena 540
aaaaanttnn gnccnanaa cgcntttcc nannnttnn cnttggggcc caaaaanttn 600
cgnaaccccn tgggcennaa gggcnttngt ttttttgggg nccccnaaac canggggggg 660
cnhaaaaaat gncccttgaa ntttttaaaa aaccctntgg naaaancccc nngggttccc 720
ccnnnnnccc ttanttttnn acanaanggn naaaangggg ncccnnaaaa naccnttngg 780
ggcctttttt tnacaaattt ggggnttttn aaaggggttt tngggggggc cctnatncc 840
ccnaaaaang aaagggnnc cccccennn nnnnnnnncc cnaancccc gggnnttttn 900
ccnggggggg ccnnnaaaa gggggnaant ttnggnaaan nccnnnnncc ggggggnccn 960
ttnaaanntc nntttnanng ggcccnnnn nccccnnnn annngggggg nnaaaaaccn 1020

<210> 44
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 44

nnngnnnnnn	nngattgggc	cctctagatg	catgctcgag	cggccgccag	tgtgatggat	60
atctgcagaa	ttcgcccttt	cgagcggccg	cccgggcagg	tacgcggggc	tcggcgctgc	120
ctacggaggt	ggcagccatc	tccttctcgg	catcatggcc	gccctcagac	cccttgtgaa	180
gccaagatc	gtcaaaaaga	gaaccaagaa	gttcacccg	caccagtcag	accgatatgt	240
caaaattaag	cgtaactggc	ggaaaaccag	aggcattgac	aacaggggtc	gtagaagatt	300
caagggccag	atctttagatc	ccaacattgg	ttatggaagc	aacaaaaaaa	acaaagcaca	360
tgctgcccag	tggttccgg	aagttcctgg	tcacacacgt	caaggagctg	gaagtgtgc	420
tgatgtgcaa	caaactctac	tgtgccgaga	tcgtccacaa	tgtttctctc	aagaaccgca	480
aagccatcgt	ggaaaagagct	gccaactgg	ccatcagagt	caccaacccc	aatgccaggc	540
tgcgagtg	agaaaatgag	taggcagctc	atgtgcacgt	tttctgttta	aataaatgta	600
aaaactgcaa	aaaaaaaaann	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	660
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	aaanccnnnn	aaaanannnn	nnnnnaaaag	720
gcttntttta	angggcaa	tgggaaacct	ttttnattca	aaaatggctt	ttncangga	780
ctggggacca	ntttnccng	gggnccaaaa	ttgggntttc	ctttaanccc	nttnccnaaa	840
gggaattttt	ncccttgggc	cttgaaaaac	naagcnnnna	aaaagncctt	tggnnggaa	900
acccttttng	ggggaatttc	cncncnttg	ggggggcnnt	ntnnnnnggg	accnnttg	960
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ccca						1024

<210> 45
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 45

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gtgtgctgga	attcgccctt	tcgagcggcc	gcccgggcag	gtacggcgca	ttttgtgcac	120
acaaaatgtg	cgcacacaca	cacacacaca	cacacagaca	ctcctgcaca	tggtctgtta	180
aagaactaca	agggaggtgg	gacgcgggaa	agtgtatggt	gtgggtttgc	atcgtctcat	240
cattgattct	tctcatattt	ttctctgatt	agagaaaacta	aagagaattt	tgtgagaaag	300
gcttgaaagt	taattagttg	cttctaccaa	agtattaca	agcagaaatc	ctcagatgct	360
gtagagatgc	tgacccacac	atccttagct	caagggaagcc	cctcgcatta	gtcaccttca	420
gccatcagca	gcctccacca	ttaaccccag	tgtgctgtat	aaaaaatact	ttctacatgt	480
gcccgaattt	gaaaagttag	gaagcactga	tttcaaagca	aatcattcac	atttgaactg	540
tcttcagtgt	acctcgggcc	cgaccacgct	aagggcggaat	tctgcagata	tccatcacac	600
tgccggccgc	tcgagcatgc	atctagaggg	cccaattcgc	cctatagtga	gtcgtattac	660
aattcacttg	ccgtcgggtt	tacaacgtcg	tgactgggaa	aaccctgcgc	ttacccaact	720
taatcgnct	ggagcacatt	cccntttgg	ccnactggcg	taattaacca	aaaagmccg	780
gaccgaatcg	gccntttcca	acaagttggg	ccaacctgaa	tnggcnaaan	ggcccccccc	840
tgtaaccggn	gccattaaac	ccccgncggg	nnnnntngggg	tacccccaac	ggggaccggt	900
taacttgcc	anggccttaa	ggcccggtcc	ttttggtttt	ttncctttcn	tttttngccc	960
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taaa						1024

<210> 46
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 46

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atggatatct	gcagaattcg	cccttagcgt	ggtcgcggcc	gaggtagact	gaagacagtt	120
caaagtgtgaa	tgatttgctt	tgaaatcagt	gcttcctaac	ttttcaaatt	tgggcacatg	180
tagaaaagtat	tttttatata	gcacactggg	gttaatgggtg	gaggctgctg	atggctgaag	240
gtgactaatg	cgaggggctt	ccttgagcta	aggatgtgtg	ggtcagcatc	tctacagcat	300
ctgaggattt	ctgcttgtaa	tcactttggg	agaagtaact	cattaacttt	caagcctttc	360
tcacaaaatt	ctcttttagt	tctctaata	gagaaaaata	tgagaagaat	caatgatgag	420
acgatgcaaa	cccacacccat	acactttccc	gcgtcccacc	tcccttgtag	ttctttaaca	480
ggccatgtgc	aggagtgtct	gtgtgtgtgt	gtgtgtgtgt	gtgcgcacat	tttgtgtgca	540
caaaatgccc	cgtacctgcc	cgggcggccg	ctcgaaaggg	cgaattccag	cacactggcg	600
gncgttacta	agtggatccc	gagctcggtg	ccaagcttgg	cgtaatcatg	gncatagctg	660
nttctgtgtg	gaaattggta	tccgctcaca	attccacaca	acatacagac	cgggaagccn	720
taagtgtaaa	agccctgggg	tgcctnatga	gtgagctaac	tccattaaat	tgcgttgccg	780
ctcactggcc	ggttttagtc	cggnaaanct	gcggncnact	gcantaatga	atcggncaac	840
gcccccgga	aaaaagcggg	tgcgaattgg	gcctnttttc	cctttcttgg	ttaatggact	900
ccntnngnct	tnggccnttc	ggnttngggn	naacggggatt	aanttnnntt	naaagggggg	960
naanacgggt	ttccccnana	aatcnggggn	aaacccccng	gaaanaaacn	ttggncccaa	1020
nggc						1024

<210> 47

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 47

ggngnnnnnn	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgagggtgcat	ctgaacattg	ccaagcccta	120
ggacattccg	tagagcttgg	ggattctgga	ccaattgggt	cagacaggac	acgaaatgcc	180
tgtttgatgg	gttctgcaat	taaacaccca	actactctct	tttcatcaga	tataaaaaga	240
aaagttttta	ttttgtttgg	acatttagga	acaacttgct	ggaagcccaa	ttcattatca	300
acaagttctt	ggacatcttc	tacctttttg	atagcaaagc	ttggatcatg	tggcagaacc	360
aacacgattt	tcccatccca	aaactctgct	actacacggt	ctttcttcca	acccacatat	420
ttgattcctt	ccagaaacct	gtggtgatgc	tgtacctgcc	cgggcggcaa	gggcgaattc	480
tgcagatata	catcacactg	gcggccgctc	gagcatgcat	ctagagggcc	caattcgccc	540
tatagtgagt	cgtattacaa	ttcactggcc	gtcgtttttac	aacgtcgtga	ctggggaaaac	600
cctggccggt	acccaactta	atcgcccttg	agcacatccc	cctttcgcca	gctggcgtaa	660
taagcgaaga	ggcccgnacc	gatcgccctt	tccaacagtt	gccgcagcct	gaatggcgaa	720
tggacgcccc	ctgtanccgg	cgcattaaac	cgcggcgggg	tnnttggggg	accccnacag	780
gggaccggta	cactttgnca	agggccctaa	cggcccggtc	cnnttcgctt	tcttnccttt	840
cnntttnttg	ccacgttngn	ccgggttttc	cccgtnaagc	ttttaaaatn	gggggcttcc	900
cnnttttaggg	gttcnaaatt	aanggcttta	cgggaccctt	gaccccnaaa	aaactttnnn	960
tttnnggggg	gnggggntnc	ccntaggggg	ccattgnccc	ttgnnaaaaa	anggtttttt	1020
nncc						1024

<210> 48

<211> 1017

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1017)

<223> n = A,T,C or G

<400> 48

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gcagaattcg	cccttgccgc	ccgggcaggt	acagcatcac	cacaggtttc	tggaaggaaat	120
caaatatgtg	ggttggaaga	aagaacgtgt	agtagcagag	ttttgggatg	ggaaaatcgt	180
gttggttctg	ccacatgac	caagctttgc	tatcaaaaag	gtagaagatg	tccaagaact	240
tggtgataat	gaattgggct	tccagcaagt	tgttcctaaa	tgtccaaaca	aaataaaaac	300
ttttcttttt	atatctgatg	aaaagagagt	agttgggtgt	ttaattgcag	aacccatcaa	360
acaggcattt	cgtgtcctgt	ctgaaccaat	tgggccagaa	tcaccaagct	ctacggaatg	420
tcctagggct	tggaatggt	cagatgcacc	tcggccgcga	ccacgctaag	ggcgaattcc	480
agcacactgg	cggccgttac	tagtggatcc	gagctcggta	ccaagcttgg	cgtaatcatg	540
gtcatagctg	tttctgtgt	gaaattgtta	tcgctcaca	attccacaca	acatacgagc	600
ccggaagcat	aaagtgtaaa	gccctggggt	gctaattgag	tgagctaact	cacattaant	660
gcgttgcgct	cactggccgc	tttccagtcn	ggaaacctgt	cgtgccagct	gcattaatga	720
atcggncaac	gcgcggggga	aaaagcggtt	gcgtaattgg	gcgctctttc	cgctttcttg	780
nttacttgac	tccttgggct	tcggccgttc	ggntgcggnn	aacggnattc	aacttactca	840
aaaggcggnn	atacgggtatt	cccngnaatc	nggggataac	ccccggaaan	aactttgacc	900
naaaggcccc	caaaaggccc	ngaaccgcna	aaaaaggcgn	cgnnnnnnnn	ggggtttctt	960
aaggttcggg	ccccctgggn	aggtttccca	aaaatngnnn	cctttannnn	nnnnngg	1017

<210> 49

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 49

ggngnnnnnn	anatnaaacg	ccagcttggg	accgagctcg	gatccctagt	aacggccgccc	60
agtgtgctgg	aattcgccct	tgagctggcc	gcccgggcag	gtactgaaat	tactctgaat	120
tcagaaatgt	aagtatatgc	agctaggtca	taaagacact	gctttagaga	agacatgtat	180
tagtggaaatg	gaacaggtaa	catctttgag	aagtcaatga	gttctgcatg	cagggatttc	240
accatcgga	tgatggcaag	aatgatgcct	gcctgtgtgc	ttctcagagg	acgtataaag	300
ccactgagga	tgagtgtac	agtgtgtgtg	aattgtgggg	ccacagacat	ttaagtggc	360
attgcttttc	tcctcctctg	cttaatccac	ctttataaat	atggcagatg	gcttaagaca	420
ggcatcatca	gcatctctgg	agatgtgggc	tcagagggca	agtggggggc	gtggggggtt	480
ccactagagg	gagggaagtt	tctgtttccc	atgtgttagt	tgtagtgtgc	tttgtgtctc	540
accagaaaag	aggtagagt	cgcaccttca	cactaagagc	ccgaaattgt	gggtcagtac	600
tttttttttt	ttnnnttttt	tggtnttttt	tnnnnnnnnn	nnnnntnnnn	ngnnnnnnnt	660
tnnnntnnnn	ngnnnnnnnn	nnnnnnnnnn	ttntntnngg	nnnnnccttn	nnnnnaann	720
nngnnnann	ncnnnnnnnn	tnnnnnnnnn	nnnnncnttn	ngggnnnang	ncccnannnn	780
nccnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnccnannnn	nnnnnnntnn	840
nnnaanncnn	tnnnnnnnnn	nnnggnnnnn	nnntttnnan	nnnnnnnnnn	nngnnnaann	900
nnnnnnnnnn	nnnnnnnnna	annnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	960
nnnnnnann	nnnanngggn	nnnncccnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnttt	1020
nngg						1024

<210> 50

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 50

ggagnnnnnn	nnntncngant	gggccctcta	gatgcatgct	cgagcggccg	ccagtgtgat	60
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ggatatctgc agaattcgcc cttagcgtgg tcgcggccga ggtacactga cttgagacca 120
ggtgaataaa agtgcacacc ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaanaana ntaaaaaaaaa tttnaaggta aagntnncnn ntnaaaatct tttaggggna 300
tccttatann nnttttcggn tntttnnngg ntngncctct nntnccnnnt tttttnggna 360
ancccnnaann cccngnctta ccnatgngn cananttaaa anggtncntt nttngnggga 420
nctcannnec cccgccnttt tnttnngggg ggnttnncca nngngnggnaaatgcncgc 480
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tntnncngat tngnnncccc ccncnngcag anntcnttgn nnccttantn cccggggnta 600
nacccttcct ttaaaancnc nntgntntna aaaannnttt nccctgancna tcgggntaaa 660
ncnnnttttt tgaaaaccnn ggcttttttnn aanangctcc gntnggcnaa ctttggggaa 720
naaggntttt ttttaaggcct tgcttttttag ggccanccta angnggannn ncngttgnt 780
tgnnngatgg tttttagggg tccccgggtg ggaccnttnt tgggggggaaa ttttggmccn 840
aggggntccc cttnaagaaa tccnnnttcc nggncncnaa ttncnnaaa aattnngggg 900
ccnaaanntt tnattgggaa ggcncctttg ttgccccnnt aaanggnccn naaaccttta 960
aanggggggn gcntttaatg gcncctttcn ggncccnaaa aaanggggnc ccccnnttt 1020
nagg 1024

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<210> 51
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

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<400> 51
gngnnnnntt aactcccgtt tggtagcgag ctccgatccc tagtaacggc cggcagtgtg 60
ctggaattcg cccttagcgt ggtcgcggcc gaggtacttt ttttttcttt tctttctttt 120
tttttttttt ttttaattttt gagatggagt tttgctcttg ttgccacgc tggagtgcac 180
tggcgcaatc ttggctcatt gcaacctcca cctcccggat tcaagcgatc cttctgcctt 240
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tttagtagag atgggggttt accacgttgg ccaggctagt ctcgaaactcc cgacctcatg 360
tgatcctccc accgcagcct cccaaagtgc tgggattaca ggcgtgagcc accatacccg 420
gttgattgta gactttttgat tggattttac aaggacccat gagaggcaac aaagagaagt 480
tgtcaagaga acagaccctg agaccaatag tttggctcaa gctctggctc cctaacttcc 540
taccagtttg accttgggca agttacctaa catctttgtg cctccatttt ctatttgtaa 600
aaggaaacta atagtagtgc ctactttata atagagttaa taaaaatatt aaatgagtta 660
atatattgtaa agtaattaga aaaatgcctg gcacttcaaa agcagccttc atttattctt 720
tggaataaat tttaaatgaa ttcaagggtt atatgtagct tttaggcata tatnccataa 780
tggcactgta aaactgcana aatatccgat ctttaaaaaa ttttgggtaa atttatcata 840
atatggnaac caaatcccat ttaatggctt ttaggggtan ccgatnaaaa ccngaagttt 900
gcagtttaag ccncttatgg aangggaccc gaaattccaa ggancannn gggaaaaaac 960
ccnngagga atnttggcgg ntttaantta aancctttgg gtnntttaag nncctaaaaa 1020
nttt 1024

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<210> 52
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

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<400> 52
gngnnnnntt tnnngttcng antgggacct ctagatgcac gctcgagcgg ccgccagtgt 60
gatggatata tgcagaatcc gcccttcgag cggccgcccc ggcaggtact tcaaaactat 120
tcataagcaa aaatcagtgt caaaaatatt tagtaactta aaaaaaacia aaagtataag 180

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tagagacgga	caagaactcc	tectgctttc	tcccactggg	ctcatcgat	ttctgttcca	240
ttacataaga	gactaaaact	gacaaactct	gttttatcgc	taacaccta	aagcaataaa	300
tgtgatttgt	taccatatta	tgataaaatt	taacaaaaaa	attttaaaga	tcggatattc	360
tgcagtttac	agtgcattt	atgtatatat	gcctaaaagc	tacatataaa	ccttgaattc	420
atttaaaatt	atttccaaag	aataaatgaa	ggctgctttt	gaagtgccag	gcatttttct	480
aattacttta	caaataattaa	ctcattttaat	atttgtaata	actctattat	aaagtaggca	540
ctactattag	tttcctttta	caaatagaaa	atggaggcac	aaagatgtta	ggtaacttgc	600
ccaaggtcaa	actggtagga	agttagggag	ccagagcttg	agccaaacta	ttgggtctcg	660
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caaaagtcta	caatcaaacc	gggtatgggg	ctcacgcctg	taatcccagc	actttgggga	780
ggctgcggtg	gggaggatcc	ccatganggt	ncggagttcg	agactagcct	gggccaacgt	840
ggnggaaacc	ccatctntac	taaaaattcc	aaaatcanct	ggggaaggng	ggcacacgtc	900
tataatccca	cttccttggg	aagcttaagg	ncnnaaggac	gcttggaaac	ccggaanggn	960
gnggttcaat	ggancccaaa	atgngccatt	ggnctttcnc	gngggccaac	angagccaaa	1020
ntcc						1024

<210> 53

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1024)

<223> n = A,T,C or G

<400> 53

gggnnnnnnn	tnncttaacg	cccgnttggt	accgagctcg	gatccctagt	aacggccgccc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacattactt	ggtgttaaca	120
ttgttggcag	tggtagcccc	ttttcagaaa	gcaacttgct	gtaagtcagg	gtgtccgttc	180
caaccttcag	ctagtgaaaa	ggtagtaaca	aatgggtaaac	aagagaatga	ttgttttaaac	240
ctatctgtgg	acacttaaat	caactgttta	aaaatgataa	tcacgagtta	tgtagcaacg	300
tggaaatata	tttacagaac	attaagtggg	gaaagcagga	cacgaaagta	tatttatact	360
acagttataa	ctcaacagtt	catttatatg	ctgttcattt	aacagttcat	ttaaacagtt	420
cattataact	gtttaaaaat	atataatgct	atagtcaaaa	gctgttggtg	tgtgtgtgtt	480
gtaggcttat	agttgagcat	tattttctta	aattttcttg	atgttcttta	tggtagtggt	540
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ttggaaaata	cagaaaagtg	gaggaaaaaa	aatcatatcc	ccaccatcca	aagacatata	660
ctctcctctt	atcttgntca	ttcttgggtc	tgngcacagg	tttatgatta	taactgngtc	720
aaaatgtata	ttcaaaaatag	ctggtacatt	acctttgngg	nattatgggt	aaatctttca	780
ctttaatttt	ttcaaagggtc	cctatnataa	tggcccggat	aaccgnggga	tttaaggggg	840
ctcccattgg	gggcataatn	cataccngga	ggaaaaattn	naaaattaag	gnaantattt	900
ttaaaaaatt	ncctatatatt	cccaaaacct	aacaactact	ggtaaaaatn	ttggaccggg	960
tccccctatt	ntnggttaan	ggccccacct	ttgggnaaaa	ccgggggtnaa	aaattggggc	1020
ctaa						1024

<210> 54

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1024)

<223> n = A,T,C or G

<400> 54

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tttttttttt	ttacatttat	gcatacttat	cactaacacc	ctaataatca	cagactagtg	180
cacagatcaa	gatgttaaca	gttaattgtt	gttgggtgtt	gggaatatgt	gtgaattttc	240
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cataaaattt	attaccaaaa	caccaaagat	tattttaagga	atttgagaca	aaatatttta	360
ccaaattccc	acaatgacaa	cactatttta	gttattttcc	acatcttttc	atttaagact	420
ttatgcacac	atatttaaca	ctgttatcac	aagcgtgtgc	actgaaacaa	gatagaggaa	480
acagatcaag	atgttagcag	tagttgttag	gtgttgggaa	tataggtaat	tttttaaaat	540
aattttacttt	atttttcta	ttttcctctg	ggtatgtatt	atgcacacca	atggagacac	600
acataatata	ctgttatcag	gacattatta	tagggaacat	ttgaaaaaat	taaagtga	660
gtattttaacc	ataattccac	aaaggtaatg	taacagctat	tttgaatata	cattttgaca	720
cagttataat	cataaacctg	tgcacagaaa	cnagaatgaa	cnngattaga	ngagagtata	780
tgtcttttga	tgggtgggat	atgaattttt	cctncacttt	tctggatttt	nccagtgtgn	840
gaaaaatgag	ttccaaaata	tggtcncaat	ggnaaatgng	ancntnaacc	ttttagtanc	900
ccttncttn	aggaacattt	caggaaantt	tannaaaata	anggtcaac	ttttaggcct	960
acannancaa	ccccncaaaa	ggnttttgac	tntttanccn	tntatatttt	taaccgggtt	1020
taan						1024

<210> 55

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 55

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taaaaccacc	tgaggagcct	cttgatgggtg	agtcaggctg	ttcctcgaag	agtaggctgt	180
gactgccaaa	ctttgtaggt	taaggagtat	ttataatgat	ctttgaggaa	actgcaactg	240
acaattgagg	gaaaaaaatg	ttagttcatg	actgcaaaat	acatgacaga	atcacaaaaa	300
ctattttaca	agtttaaaaa	acaaacctga	tgctgatgca	tggcaggcga	accccaaagt	360
ggggcttagc	ctgcaagggt	tcttggtctc	acccaggaaa	ggattcaagg	gcaagccagt	420
ggtaagggtg	aagaaaacac	ctttatcaaa	gcaacactgt	tacagctcct	gtggggtcac	480
agctcagtg	ctgctcccag	ggttgcccc	taggcagggt	gccgagagta	gcagctgagc	540
ccagttttgc	agtcatatgt	atacctactt	tttaattacat	gcagattcag	gggtgggttg	600
cgcagaatt	gttaggaaaa	gggtggtaac	ttttgggtca	tcaggtcatt	gccgcttaaa	660
gtggtggtaa	tgcttgagtt	ttgcatggc	aatggtaa	tgacaaggca	cgctgcttgg	720
tgtgtcttac	agaaagctgc	ttncgctctg	nccttggtta	notageccctc	gancntttgg	780
ttgtaaata	accaagagaa	gtcacggggc	cttggcgttt	tcttcccaga	agtacccttg	840
ggccgggaan	cagcttaag	ggccaaattc	ttgcagatat	ccatnacact	tggcngncc	900
gnttcancct	tgcattttta	aagggcccaa	tttgnccctt	taaanggagt	cgantaccaa	960
ttnnntggg	ccgcgtttta	acaacgtnnn	ggacttggga	aaaanccctg	ggttacccca	1020
antt						1024

<210> 56

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 56

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tgaatgat	ctgcagaatt	cgcccttagc	gtggtcgcyg	ccgagggtact	tctgggagaa	120
aacgccaagg	ccgtgactct	cttgctcatt	tacaaacaaa	agatcgaggg	ctagctaaac	180
aaggacagag	cggaagcagc	tttctgtaag	acacacccag	cagcgtgcct	tgctcagttta	240
ccattgccat	ggcaaaactc	aggcattacc	accactttca	gcggcaatga	cctgatgacc	300
caaaagttac	cacccttttc	ctaacaattt	ctgcgcgaaa	caccctgaa	tctgcatgta	360
attaaaagta	ggtatacata	tgactgcaaa	actgggctca	gctgctactc	tcggcaccct	420

gcctatgggg	caaccctggg	agcagtcact	gagctgtgac	cccacaggag	ctgtaacagt	480
gttgctttga	taaagggtgt	ttcttccacc	ttaccactgg	cttgcccttg	aatcctttcc	540
tgggtgaagc	caagaaccct	tgcaggctaa	gccccacttt	ggggttcgcc	tgccatgcat	600
cagcatcagg	tttgnttttt	aaacttgtaa	aatagttttt	gtgattctgt	catgtatttt	660
gcagtcatga	actaacattt	ttttccctca	attgcaagtt	gcagtttcct	tcaaagatca	720
ttataaatac	tccntaaccc	tacaaagttt	ggcaagtcac	agnctactct	ttgaggaaca	780
agcctgactt	accatcaaga	agcttccttn	anggggntta	cnttccatgg	tttcccatgg	840
tgaaggancc	tgncctgggc	ggcggnttaa	gggcgaaatt	caacacactt	ggngggccgn	900
tnnnntaang	gatccnaact	tggganccaa	annnttgggg	naaannatgg	gnnnnnaact	960
ggnnncggg	ggggaaaatg	gtatnccgnt	tccaatttcc	ccnccnannnt	tnnaancccg	1020
gaan						1024

<210> 57
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 57						
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ttagtatctg	gcttccctaa	ggatgtaact	ttcatgtaac	agattaataa	cttatatgaa	180
aaccaacaca	accatatgtt	tagggctgga	aagggccatg	acgcctgggc	atttttcctg	240
ttttacctta	ctcttatgtg	tgtcacactt	catcaattcc	ggaaacagtt	tctggagatc	300
tcctcattac	ctcttttaca	atcacctcac	tccagcatgg	tgtctgttac	ctcttcccac	360
ttgtgacaat	gtctagtaag	gtccactctc	cattctgtgt	gatgaccact	tattacaacc	420
ctcagaatag	gggacagtg	tgtgccccct	gcaatacaat	ggtttctatc	tcctgatact	480
tttattacac	ctctagcagg	atgtcttgtg	atcctcctta	ttgatttttc	cctcacgatg	540
atgaacaatt	atctcccgtt	actcacctag	cagtatctaa	ctgtccctaa	cacagcatgt	600
gggaatgccc	tcaatacgg	ggatgctgnt	aactttcttc	cttccctca	ggcaatggcg	660
gtgacttaca	atgaaccata	atggccacat	ttcccaactg	natttttgaa	cctcttctgn	720
ccccctcttt	ctagganccc	agttaaaaaa	aaaaaaccaa	aactagcccc	aatgnctgtg	780
atgcccatta	atcacttacc	cagggctgan	ccctncatta	aanttttgat	gggatctctt	840
tggnntccca	attggcctgt	naacccaagn	ctgntggatt	cccaanttnc	cccattgntt	900
taatgcgggt	cccttaanca	ncccttggnt	actggacctg	gcngggngg	gcccttttaa	960
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aang						1024

<210> 58
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 58						
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aggaaccgca	tgaagcaatg	tgggaaattg	ggaatcagca	gacattgggt	taacgggaca	180
atggggagcc	aagagatacc	atcaaaattt	aatggagggg	tcagacactg	tgtagtgat	240
taatgggcat	caacagacat	tgggctagtt	tttgtttttt	ttttttaact	ggggctctag	300
aaagaagggg	acagaagagg	ttccaaaata	cagttgggaa	atgtggacat	tatggttcat	360
tgtaagtcac	cgccattgcc	tgaggggag	gaagaaagtt	aacagcatcc	accgtattga	420
gggcattccc	acatgctgtg	ttagggacag	ttagatactg	ctaggtgagt	aacgggagat	480
aattgttcat	catcgtgagg	gaaaaatcaa	taaggaggat	cacaagacat	cctgctagag	540

gtgtaataaaa	agtatcagga	gatagaaacc	attgtattgc	aggggggcaca	ccactgtccc	600
ctattctgag	gggtgtaata	agtggtcac	acacagaatg	gagagtggac	cttactagac	660
attgtcacaa	gtgggaagag	gtaacagaca	ccatgctgga	ntgaggtgat	tgtaaaagag	720
gtaatgaaga	gatcttccag	aaactgtttc	cgggaattgat	gantgtgacc	cnccttaaga	780
ntaaggtaaa	acaggaaaaa	tgnccaggc	gtnatnggcc	cttttcagnc	cttaaccttt	840
attggtgggg	tggtttcata	taagttant	aatctggtn	cctgaaagtt	tccttccttt	900
anggaaaccc	gantccta	cctttnaagt	ccnnggatga	gacccttgg	ccgggaaccc	960
cccttaagg	cgaaattccn	nccacttgg	gngggccntt	nncttaagg	acccaacttg	1020
ggcc						1024

<210> 59
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 59						
gagnnnnnt	taactccgc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgaggtacct	ggttttcttt	caactcttca	120
atttcccatc	ttccatcgta	tattgaaatt	tcctcatcca	tgatcatctt	ctttgctttt	180
gataagaccc	atccagccaa	ccttccacta	tcaaaaagtt	ctgcaaaata	tacttctcct	240
atagggtgag	gtgtcttata	tttaatctct	gaggaaagtt	cactttcatt	aacatcaatt	300
tcttctgaat	tttcttcaaa	gtcttcctgc	tcaacatcat	catecataaa	ttctgcatta	360
attgagatga	acagaagacc	caaacataac	caaaaggcct	ggaaatgcat	attgattatc	420
tctcttgccg	cctgttttcg	gcagtgcacg	ctcagatgtc	caagtcgttg	ccacttggtc	480
cccgcgtctc	ttcagaccag	tccccccgc	gtacctgcc	gggcccgcgc	tcgaaagggc	540
gaattctgca	gatattccatc	acactggcgg	ccgctcgagc	atgcatctag	agggcccaat	600
tcgccctata	gtgagtcgta	ttacaattca	ctggccgtcg	ttttacaacg	tcgtgactgg	660
gaaaaccctg	gcgttaccca	acttaatcgc	cttgacgac	atcccccttt	cgccagctgg	720
cgtaataacg	aaaagcccgc	accgatcgc	ctttccacag	ttgcgcagct	gaatggcgaa	780
atggaccccn	ccctgtancg	gcgcattaan	cnccngcng	gtnntgggg	tacccccaac	840
ggggaccggt	acactttgnc	aagggcctaa	cgncgggttc	ntttgggttc	ttncctttcn	900
ttnttngcac	gttngnccgg	nttttcccg	naagctttaa	aatngggggc	ttcccccttt	960
angggctccn	aataaaggtt	ttacggganc	ttgaaccccc	aaaaaacttt	gnnttnaggg	1020
ggga						1024

<210> 60
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 60						
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tggctctgaag	agacgcgggg	accaagtggc	aacgacttgg	acatctgagc	tgctactgcc	180
gaaaacaggg	cgcaagagag	ataatcaata	tgcatttcca	agccttttgg	ttatgtttgg	240
gtcttctgtt	catctcaatt	aatgcagaat	ttatggatga	tgatgttgag	acggaagact	300
ttgaagaaaa	ttcagaagaa	attgatgtta	atgaaagtga	actttcctca	gagattaaat	360
ataagacacc	tcaacctata	ggagaagtat	attttgcaga	aacttttgat	agtggaaggt	420
tggctggatg	ggtcttatca	aaagcaaaga	aagatgacat	ggatgaggaa	atttcaatat	480
acgatggaag	atgggaaatt	gaagagttga	aagaaaacca	ggtacctcgg	ccgcgaccac	540
gctaagggcg	aattccagca	cactggcggc	cgttactagt	ggatccgagc	tcggtaccaa	600
gcttggcgta	atcatggtca	tagctgtttc	ctgtgtgaaa	ttgttatccg	ctcacaattc	660

cacacaacat	acgagcccg	aagcataaag	tgtaaagccc	tgggggtgcct	aatgagtga	720
ctaactcaca	ttaaatgcgt	tgcgctcact	ggcgcgttcc	cagtcnggaa	accctgtcgt	780
gccagctgca	ttaatgaatc	ggccaacgcc	ccgggggaaa	aagcggnttg	cgtattgggc	840
gctcttccct	ttcttgntta	cttgactcgc	ttgggcttcg	tcgttcggct	gcggcnaacg	900
gnatcagctt	actcaaangc	gggaaatacg	gtantcccca	gaatccnggg	gattaccccn	960
ggaaaagaac	ctgtgagccn	aanggccccc	aaanggcccn	gaaccntaaa	aaanggcccg	1020
tnnn						1024

<210> 61
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 61						
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accaattttg	ctgcaagaat	gggaactgct	tttaaactctg	taaatagctc	ttaacatttg	180
ttgtatgcac	tcttttctta	ctatggctgt	caacacttgt	gtaggggttta	atttctaaat	240
tggtggcatg	ttctttttct	caggctattc	agaagtaaca	acatttttca	tttcagacat	300
gcaatcacct	attaatgatg	aaatatttta	ccactttggg	aatatttaat	tagtttagtc	360
atggagaata	cttcccacat	tttaagattt	ttcaaataatc	actgtcattt	ctatttttagc	420
attttatcaa	attattgctt	ttttatttta	taataaggct	taagacagat	tatagacctc	480
cttaagagat	gagtttcttc	ttctaaaaat	gcatgttgat	agaggactat	ttaggctaata	540
cggaggaatc	attaagaaaag	aaagttttaa	cactgtttat	ccctatctgc	tttcccttgca	600
ctttttctgt	gaaaaatatt	ttctgtttgc	aaaatcttcc	ctgagttctg	aaccacgcac	660
catcagtacc	tcggcccgca	ccacgctaag	ggcgaattct	gcagatatcc	atcacactgg	720
cggccgctcg	agcatgcac	tagagggccc	aattcgccct	atagtgaagc	gtattacaat	780
tcaactggccc	gcgnttttac	aacgtcgtga	ctgggaaaac	ccctgcgtta	cccaacttaa	840
acgcctctgc	agcacatccc	ccttttgnc	aaatgcgtaa	ttaccaaaaa	ggcccgnaacc	900
gaacggcttg	ttcccacaaag	tggcncaacc	ctgaaatggc	aaatggggccc	cccccttgaa	960
ccgngccent	taanccccc	nccggggnnt	tnggggtccc	cccacggnga	nccgttaaac	1020
ttgc						1024

<210> 62
 <211> 1024
 <212> DNA
 <213> Homo Sapien

 <220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 62						
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gaactcaggg	aagattttgc	aaacagaaaa	tattttttcac	agaaaaagtg	caaggaaaagc	180
agatagggat	aaacagtgtt	aaaactttct	ttcttaataga	ttcctccgat	tagcctaaat	240
agtcctctat	caacatgcat	ttttagaaga	agaaactcat	ctcttaagga	ggtctataat	300
ctgtcttaag	ccttattata	aaataaaaaa	gcaataattt	gataaaatgc	taaaaatagaa	360
atgacagtga	tatttgaaaa	atcttaaaaat	gtgggaagta	ttctccatga	ctaaactaat	420
taaatattcc	caaagtggta	aaatatttca	tcattaatag	gtgattgcat	gtctgaaatg	480
aaaaatgttg	ttacttctga	atagcctgag	aaaaagaaca	tgccaacaat	ttagaaatta	540
aaccctacac	aagtgttgac	agccatagta	agaaaaagagt	gcataacaaca	aatgttaaga	600
gctatttaca	gattttaaag	cagttcccat	tcttgacagca	aaattgggtga	cataaaaacca	660
tttgtacctg	ccccgggagg	ccgctcgaaa	gggcgaattc	cagcacactg	gccgnccgtt	720
acttagtgga	tccgagctcg	gtccaagcct	tgcgtaaatc	atggnccata	ntggttcctg	780

nggtgaaatt	ggtatcccg	tcacaatttc	nccccancat	acgaanccgg	aagccntnaa	840
gngtaaaanc	cctgggtggc	ctaagtgtg	aactaactca	cattttaaag	cgtgcgctta	900
ctggcccggt	ttccaatcng	ggaaanctgt	cgngcccact	ggntttaang	aatcggccan	960
gccccnngg	gaaaaaagng	gttgcnnatt	gggccctttt	tcggttcctt	ggttantgga	1020
atcn						1024

<210> 63
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 63						
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gctggaattc	gcccttagcg	tggtcgcggc	cgaggtacat	tgacttcatt	actaaagaac	120
aaaaatgttc	atTTTTgtcc	cagtaaattg	agactgcttg	tactTTTTTT	TTTTTTTTTT	180
TTTTTTTTTT	ttattaaaat	actgagtttt	atttcacatg	tatatttttg	tctccccacc	240
atttccatgt	ctgaccacgc	ctactactat	gtcctatcat	aacattccat	acatacttaa	300
aaccaagcaa	agggtggagt	tccatcttta	aaaactaaac	ggcatttttg	acaacacatt	360
cttggaata	naacctggac	aacattttatc	aaacacggta	gggaaagtgc	tactctgca	420
ttataaaaag	gacagccaga	tatcaactgt	tacagaaatg	aaataagacg	gaaaattttt	480
taacaaattg	tttaaaactat	tttcttaaag	agacttcctc	cattgccaga	natcttgaat	540
agcctcttgg	tcagtcaccc	ggaagcaatt	cttcacataa	ttgatgaatt	tggtctccac	600
tttggggaaga	gaaccacctt	tttctatact	tgcttgcatc	tttgctttta	tgncctctac	660
agaactaggt	ccttttgng	ttttaggagt	tttttctgtn	ttcttgaagg	attcttggcc	720
ttttgancct	ggggtgaaa	gangnnttg	agtcttttca	ttctgaattg	acttttgggc	780
atTTTTggct	ggagnatctc	ggatagattt	cttcactggg	gctttttctt	nagntttcct	840
catatcaaaa	tcntcatcat	catcancctt	atnaaanatcc	cctttaatna	anatcggnat	900
tnatntttat	tnagcngcaa	ggtttacttt	ttttctgggg	gaanctttgt	tanccctttt	960
cagggggcaa	aaccggtttt	ccaaaaatnc	ccttaanaat	ttnccaaanc	cncncnctt	1020
ttaa						1024

<210> 64
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 64						
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gtgatggata	tctgcagaat	tcgcccttag	cggccgcccc	ggcaggtaca	gccaacgggt	120
tcccttgggg	gctttgaaat	aacaccacca	gtggtcttaa	ggttgaagtg	tggttcaggg	180
ccagtgcata	ttagtggaca	gcacttagta	gctgtggagg	aagatgcaga	gtcagaagat	240
gaagaggagg	aggatgtgaa	actcttaagt	atatctggaa	agcggctctg	ccctggaggt	300
ggtagcaagg	ttccacagaa	aaaagtaaaa	cttgctgctg	atgaagatga	tgacgatgat	360
gatgaagagg	atgatgatga	agatgatgat	gtgatgatt	ttgatgatga	ggaagctgaa	420
gaaaaagcgc	cagtgaagaa	atctatacga	gatactccag	ccaaaaatgc	acaaaagtca	480
aatcagaatg	gaaaagactc	aaaaccatca	tcaacaccaa	gatcaaaagg	acaagaatcc	540
ttcaagaaac	aggaaaaaac	tcctaaaaac	ccaaaaggac	ctagtctctg	agaagacatt	600
aaagcaaaaa	tgcaagcaag	tatagaaaaa	ggtggttctc	ttcccaaagt	ggaagccaaa	660
ttcatcaatt	atgtgaagaa	ttgcttccgg	atgactgacc	aagaggctat	tcaagatctc	720
tggcaatggg	agaagtctct	ttaagaaaaa	agtttaaacc	atttggtaaa	aaattttccg	780
tcttatttca	tttctgtacc	agttgatatc	ctgctgtcct	ttttataatg	cnaagtggag	840
aactttccct	accggttttg	ataaatgttg	gncaggttct	attgcccagg	aatgtgtgnc	900

ccaaaatgcc	cgntagtttt	tnaagatgga	acttcacccn	tttgcttggn	tttaagtatg	960
nntngaangt	ntgatnggac	cntatnntna	ccgnggncaa	ccttggnaaa	tggtggggag	1020
acaa						1024

<210> 65
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 65	
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gtgtgctgga attcgccctt agcgtggctg cggccgaggt actctgctga tctctgcctt	120
gtaatggaaa tgtttcattc attaatgtta ttgatatggt tgcactatgt ccgtaatttt	180
gctttttgtg tatctgtcta atgtttttta ttctcctttt tctcttttac tattttcttt	240
taaattaagt aaatagttcc taacgtagta ttttattttc ttaaaataaa tcaaactcac	300
ttataaaata tatttcatat tactttctta tcgattgctg tatgccttac aacatacatc	360
ttatcagact caacatttat agtaacataa atccattgag acatagtaac attaattcctt	420
tataggctcta tttattctac ttattcaata attgttatat atatattaca tetacatggt	480
acaaacacaa aaatatattg ttataatgct tgtttttatg taattttatg tcttttaaag	540
aacatgagag aagaaaggaa agcaaagtaa ctattagcat tgttatgtta acattattct	600
ttacaatttc tggttctctt catttttttc ctggtgattc aagttgtatc ttagtgctcat	660
ttcatttctt taatacaact ttgctccaat tatttctttt gtgctcttaa tgtcaaatat	720
attaagtttt gnttgcatta taggctcaac actattatac atatattggt ttatgcattt	780
attttgaatt aagagaaaat aaaaatatgc aatttaatgg cttatatact attcatataa	840
ttaccctcta tgagggttnc ttatatatgn attccaaccn tttttataaa ntccaaanta	900
cctggtangt gccnaaaggc tectaagcct attagcccg gaaaaaaatc cctgggtant	960
tccttggnaa gggagggttg attgccacca acctntttta natnggggtg ggttttaata	1020
aacc	1024

<210> 66
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 66	
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atatctgcag aattcgccct ttcgagcggc cgcccgggca ggtactccag cctgggtaac	120
agagggagac tctatgccaa acaaacaaac aaacaaacaa acaaacatg gagaccagaa	180
agcaatgaga tgaaatgttc aaagtgtgta aagaaaaaaa aaggtaacc aaaagtctta	240
tatccagaat atttttcaaa gtataaaagc aaaatacatt ctcagataat aaaaacaaaa	300
caaaactaaa gagtttggtg ctatcatacc taccttaca gaaatactca gtgatttttt	360
tcaggctaatt aggctaggag catttggcac ctaacagtaa tttgaattta tatatatggt	420
tgtatacata tatatggaac actcatagag gtaattatat gaatagtatt ataagacatt	480
aaattgcata tttttatttt ctcttaattc aaaataaatg cataaaacaa tatatgtata	540
atagtgttga gcctataatg caaacaaaac taatatattt gacattaaga gcacaaaaga	600
aataattgga gcaaagttgt attaaagaaa tgaaatgaca ctaagataca acttgaatca	660
acaggaaaaa aatgaagaga accagaaatt gtaaagaata atgntaacat acaaatgcta	720
atagttactt tgccttcctt tcttctctca tgnctcttaa aagacataaa attacataaa	780
aaccaagcat tataacaata taattttggg tttggaacat ggtagatgta tatatatata	840
ccattattgg ataagtagaa taaataggac tattaaggaa ataatggtac tatggctcaa	900
tgggantaag gtacctataa nggtgagcct gganaggaag natgttgnaa ggcttccggc	960
aatcggttta gaaagtantt tggaaatata ttttnatnaa gnggggttga ttaatttagg	1020

aaaa

1024

<210> 67
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 67
gagnnnnnnt taactccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60
gctggaattc gccctttcga gcggccgccc gggcagggtac tttttttttt tttttttttt 120
ttttggaaaa tgagattttt gactttaaca aaacaaatac agattgaatt taccaaatat 180
tgataattca tgtanaacgg gtgccacaga ttttaaagta tcaaaaccaa gagggcatca 240
caaaataaac tttggtgaaa aatatcttca tcaaagaaga aaatatgaga agagtagtcc 300
ttatgcagtg aggagaaata tatttggtta agtaaatatg ggtagtagat actgaatcta 360
tagatagcat atattccaaa tgttttttag ggaatatcaa atcagatgat gcttanatgt 420
tatagtaata tcacttatct catttggaaat gaaatttaat gttttttaat aaatagcaaa 480
ttttcatttt ttactacct ttataaaaaca aattaaatat ttagagtata actgatcata 540
actaacatca ccttgcattt actaataaat actctaaata catttggttt attattggaa 600
tttatatcct tataatttta cctgctagaa attagtgaac ttgtggcatt atgtttaaag 660
tttacatttt ccagtgatg tgaacagtat ttatacntaa aatggatata tgnccaatga 720
atagtaacca tgtttggtgg tttaaaaacc gnacatggtt tagtttgaca ttggcatgtc 780
tcttcagaaa ttnaaaaggt atcntttaag ggatggcttt tnggaaatca ttaataaact 840
accntctggg aaaangaatn ccaatttcaa gaagctacct aantagaact cagaccccn 900
gggcagggtt ttggnanaaa angctttcaa ttncaaattt nttntccggn gnaaaccgaa 960
ngggaccctt annngnntgg accnccttcc cngnaaactg gttttaaaat aaaaatttcc 1020
gnnc 1024

<210> 68
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 68
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gatggatata tgcagaattc gcccttagcg tggctgcggc cgagggtacct agtagatcta 120
ctgagattaa acgggacctg tttggagcag aaccttttga ccattttaac tgtggagcag 180
cagatttccc tccagatatt caatcaaaat tagatgagat acaggagggg ttcaaaatgg 240
gactaactct tgaaggcaca gtattttgtc tgcaccggt agacagtagg tgetgacatc 300
agaacaaga aatcctgatt catgtttaat gtgtttgtat acacatgtca tttattatta 360
ttactttaag ataggtatta ttcatgtgtc aatgttttta aatattttta tttttgaaa 420
attttctcag ttaaatttcc tcaccttcac tattgatctg taatttttat tttaaaaaca 480
gcttactgta aagtagatca tacttttatg ttctttctg tttctactgt agatgaattt 540
gtaattgaaa gacatattat acaaatacct gccttgtgtc tgagttctat ttagttagca 600
tcttgaattt tgtattcatt ttccagatgg ctagtttatt aatgatttcc caaaagccat 660
accttaaaaga taacttttta aattctgaag agacatgcc aatggcaaact aaacatggtc 720
tggttttaaa ccaaccaaca tgttactatt cattgggaca gatatcatt tatggataaa 780
tctggtcaca tactggggaa atggaaactt taaacataat ggccccangg cactaatctc 840
ttaccggtta aaatnttang ggtttaaant nccatattna acccnatggt tttaaaggat 900
ttattntaaa ngcnnnggga ngtannttg acagtntncn ctaaaanttt aaatgggttn 960
ttaaaggtnnt gaaaaaanga aaaattgctt ttttttnaaa acctttaant cntttccnag 1020
gggn 1024

<210> 69
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 69
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ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg cagggtactcc ggtcggtgtc 120
agcagcacgt ggcattgaac attgcaatgt ggagcccaaa ccacagaaaa tggggtgaaa 180
ttggccaact ttctattaac ttatgttggc aattttgcca ccacagtaa gctggccctt 240
ctaataaaaag aaaattgaaa ggttttctcac taaacggaat taagtagtgg agtcaagaga 300
ctcccaggcc tcagcgtacc tcggccgcga ccacgctaag ggcgaaattct gcagatatcc 360
atcacactgg cggccgctcg agcatgcac tagagggccc aattcgccct atagtgtc 420
gtattacaat tcactggccg tcgttttaca acgtcgtgac tgggaaaacc ctggcggttac 480
ccaacttaat cgcttgagc cacatcccc tttcgccagc tggcgtaata gcgaagaggc 540
ccgcaccgat cgcccttccc aacagttgag cagcctgaat ggcgaaatgga cgcgccctgt 600
agcggcgcat taagcgcggc ggggtgtgtg gttacgcgca gcngtgaccg ctacacttgc 660
cagcgcccta cgcccgctct ttcgctttct tcccttctct tctcgccacg ttcgcccgtc 720
ttccccgtca agctctaaat cgggggctcc cttttagggt tccgaattan tgctttacgg 780
accttgaccc caaaaaactt gantanggtg atgggtcacg taatgggccc atnggccttg 840
anaagacggt ttttcgccct ttgacngttg gagtccacgt tctttaaaag gggactcttg 900
gttccaaact ggaacaaccn nttaancctt atttngggct aatcctttgg aattaatnag 960
ggattttgcc caatttgggc ccttnggtta aaaaaagggg cttgntttta ccaaaaattt 1020
aacc 1024

<210> 70
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 70
ggagnnnnnn ttngtittgg gccctctaga tgcattgctg agcggccgccc agtgtgatgg 60
atatctgcag aattcgccct tagcgtgggtc gcggccgagg tacgctgagg cctgggagtc 120
tcttgactcc actacttaat tccgtttagt gagaaacctt tcaattttct tttattagaa 180
gggcccagctt actgttgggt gcaaaattgc caacataagt taatagaaag ttggccaatt 240
tcacccatt ttctgtgggt tgggctccac attgcaatgt tcaatgccac gtgctgctga 300
caccgaccgg agtacctgcc cgggcccggc ctcgaaaggg cgaattccag cacactggcg 360
gccgttacta gtggatccga gctcgggtacc aagcttggcg taatcatggt catagctgtt 420
tctgtgtga aattgttatc cgtcacaat tccacacaac atacgagccg gaagcataaa 480
gtgtaaagcc tggggtgcct aatgagttag ctaactcaca ttaattgctg tgcgtcact 540
gcccgttttc cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg gccaacgcgc 600
ggggagaggc ggtttgcgta ttgggcgtc ttcgcttcc tcgctcactg actcgtgcg 660
ctcggctcgt cggtgcggc gagcgggtatc aagctcactc aaaggcggtg atacngttat 720
ccacagaatc aagggggata gcaggaaaga acatgtgaac caaaaggcca caaaaggcca 780
ggaaccgta aaaaaggccg cgttggctgg cgttttttcc atangcttcc ggcccccttg 840
acgagcatta ccaaaaatcg acgctcaagt tcaaagggtg cgaaancccg accggactnt 900
taagaatccc agcgttttnc cctggaactt ccttgggcgc ttttctggtt ccaaccttgc 960
cgttaccgga tacctggncc gcntttttcc ctttngggaa accngggcnt tntcaaaant 1020
taac 1024

<210> 71
<211> 1024

<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (1024)
<223> n = A,T,C or G

<400> 71

gagnnnnnnnt	taactcccg	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
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tctgatttta	atgcttcggt	aacttcaaaa	ggaactggta	gagttcagaa	ggtgagctgt	180
tgtttttcta	aacctcttcc	caggaagggg	acattgacac	ttgaattttt	gtcacctttt	240
tcctcattag	aaggaaagta	gaaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	300
accccatatt	ggtcttaaat	aagtatagac	taattaacct	aagctacctt	taacaacgta	360
gaatttagat	gggttcatat	atgtgagaaa	aacctgaata	taggacaggg	gtcctacttt	420
tttccccacc	tctgtcgccc	aggctagagt	atagtgggtg	gatcttggcc	cactgcaacc	480
tctgcttctc	aggttcaagt	gattctcctg	cctcagcctc	ccaagtagct	gggattgtaa	540
gagtatgcc	ccacgcccag	ctactttttg	tatttttagt	agagacaggg	tttcatcatg	600
ttggccagga	tggtctctta	actcctgccc	tcaagtgatc	caccagagag	gagatcctcg	660
gcctcccaa	gtgctgggat	tataggcatg	agccaccgtg	cccagcctac	tttctaatta	720
attaaaaaaa	aaaaaaaaaac	ttcccaaattg	agctgataaa	aaactgacgt	gaggctgctt	780
tgcttcaat	aatacctagt	tttcagctgt	tccaactcgt	ttccaaattg	gaaattanct	840
ggaacnccac	tacagtaatc	ttcanggaan	gggaaaatta	ggccttaaaa	gaatccccag	900
aaagttcanc	atnggnancc	tgncnnggcc	ggnccgttca	aaangggcna	aatttgccaga	960
aattccatna	cacttggcgg	gccgttcgan	catggctttt	aangggccca	attgnccctt	1020
aaag						1024

<210> 72
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (1024)
<223> n = A,T,C or G

<400> 72

gnagnnnnnn	ttnnnttcg	aattgggccc	tctagatgca	tgctcgagcg	gccgccagt	60
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ttcttggtat	cttttaaggc	ctaattttcc	cttccttgag	attactgtag	tgtgttccag	180
ctaatttcta	tttgaaacg	agttggaaca	gctgaaaact	aggtattatt	gaaggcaaag	240
cagcctcacg	tcagtttttt	atcagctcat	ttgggaagtt	tttttttttt	ttttaattaa	300
ttagaaagta	ggctgggcac	ggtggctcat	gcctataatc	ccagcacttg	gggaggccga	360
ggatctcctc	tctgggtggat	cacttgaggg	caggagttaa	gagaccatcc	tgcccaacat	420
gatgaaaccc	tgtctctact	aaaaatacaa	aaagtagctg	ggcgtgggtg	catactctta	480
caatcccagc	tacttggggag	gctgaggcag	gagaatcact	tgaacctagg	aagcagaggt	540
tgcaagtggc	caagatcaca	ccactatact	ctagcctggg	cgacagaggt	ggggaaaaaa	600
gtaggacccc	tgctctatat	tcagggtttt	ctcacatata	tgaaccatc	ttaattctac	660
gttggttaaag	gtagcttagg	ttaattaagt	ctatacttat	ttaagaccaa	tatgggggtga	720
naatggattt	ttttttaaaa	atcctacagt	aaggctttct	actttccttc	taatgaggaa	780
aaaggtgacc	aaaantcaag	tggaactggc	ccctttctgg	ggaaaagtgt	anaaaaaacca	840
ccggttanct	tantggaact	ttaccaggtt	cccttttgaa	gttaccgaag	ccttttaaaan	900
cagatgttaa	aaaaggaaan	nnnaaaaagt	ncctttggcc	gggaaccnc	ttaagggccca	960
aattccacac	acttgggggg	ccgntnccnt	anggatccca	ncttgggncc	aaannttggg	1020
gnaa						1024

<210> 73
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 73
 gagnnnnnt tnaacttacac gccngcttgg taccgagctc ggatccctag taacggccgc 60
 cagtgtgctg gaattcgccc ttagcgtggt cgcggccgag gtactgtgtt atggcacaga 120
 caatgcttgc ttagcgggtgc cttgttacat aggtggatgc agagtgcgca cacgggatga 180
 tggcaataaa gacctcactc agtcgttga atgaaggaa taggtaactg cttcaacaag 240
 gacgggtctca gctctacctt atctctcaac agagtgcgaaa cactgagtggt gagctcagat 300
 gtcattctgt tctcttttaa aattcaccaa attcttttgc acatttttct gttatagaga 360
 cacggatata ttcttcttca tagtcatcaa agttgctggt atctccagag cctctaaact 420
 ttggtatgaa tggagcttca accttcctct ggtaaatagc aatccaatct gtcgtggcaa 480
 accacttggt agtttttata tcaactgacac cattctttag atttccaaat ctcttgatca 540
 aatccacctg cagcaggttc cgtagaaggt ccttgagatc tgaactgaag tgggatggga 600
 atcggacctt tccagaaaca atcttttcat aaatctgaat tggttggtct gcaaagaatg 660
 ggggatagcc agctgcccatt tcatagatta gcactcctaa tgcccaccaa tccactgcct 720
 tattgnagcc cttgctgaga attatttctg gagccaaata cctctggagt tccacataat 780
 ggccaagttc tgcctttaac tcttttggca aacccccaaa gtctgtgacc cgggatatag 840
 ccctgatggg ccaatttaag aagaattttc anggggttaa aaactctggt aaatgaaggc 900
 taanggaaat ggaggnacct tttttttttt nnnnnnnntt ttttttttna acnttgtaaa 960
 aggccaaaat tttggctana anttantttc aaagnttnaa accntttcca aatttttttt 1020
 taat 1024

<210> 74
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 74
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 gatatctgca gaattcgccc tttcgagcgg ccgcccgggc aggtacagtc aactgcattt 120
 ttctctggtg accaagcttc cactgacaag gaagaggatt atattcggtt tgcccattgt 180
 ctgatatctg actacatccc taaagaatta agtgatgact tatctaaata cttaaagcct 240
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 aaaaatagca aaatgactgc agctcagaag gctttggcta aagttgacaa gagtgggatg 420
 aaaagtattg ataccttttt tggggtaaaa aataaaaaaa aaattggaaa ggtttgaaac 480
 ttgaaaaata aaatctagca aaaatatttg ctttttacat gttttaaaaa aaaaaaaaaa 540
 aaaaaaaaaa aagtacctcc attcactaga cctcatctac agagatctaa aacctgaaaa 600
 tctcttaatt gaccatcaag gctatatcca ggctcacagac tttgggtttg ccaaaagagt 660
 taaaggcaga acttgacat tatgtggaac tccagagtat ttggctccag aaataattct 720
 cagcaagggc tacaataagg cagtgggatt ggtgggcatt aggagtgcta atctatgaaa 780
 tggcactggc tatccccatt cnttgagac ccaccattc agaatttatt gaaaaagatg 840
 gttcttggaa ngncgaatt cccattcccc ttcagntcna actcaagggc ccttttacgg 900
 aancctggtt gcanggggga ttgatccagg anaatttggg aatcttaaag aaaaggggnc 960
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 ccna 1024

<210> 75
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>

<221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 75

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tggaagatta	atctgtttct	ctctgaatgt	agattttcac	caaaacatct	cttaaaacag	180
cagggactca	acacttaaaa	atgaactaga	agagctgggc	acagtggctc	acgcctgtaa	240
tcccagcact	ttgggaggcc	gaggcgggca	aatcacttga	ggtcaggagt	tcgagaccag	300
cctggccaac	atggtgaaac	cctgtctcta	ctaaaaacac	aaaaattaac	tgggcatggc	360
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gcaagactcc	acctcaaaaa	aaaaaagaag	aaaagaaaat	agtagtctca	gccaggcgtg	540
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caggagtctg	agaccagcct	ggcctacgtg	gcaaaacctc	atctctaata	aaaatacaaaa	660
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gagaagtcgc	tttgaacctg	ggangcagaa	aattgcggtg	aagctaagat	cgcacgactt	780
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tttgntnaat	gccacatggc	tcttttgnaa	gaaatttgag	agcttttttc	taatcccaat	960
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gcct						1024

<210> 76
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>

<221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 76

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ctggcttctt	tttctgcaca	caatgcctat	gagaccataa	ctaaagtcaa	attccatggg	180
cactaaccaa	taatggcatc	tcaaagaaat	tccaacctag	agaaattctg	atgatgtggg	240
tagaacacca	atcaggacac	tcacttcatg	gttgataatt	cccagacatg	actgattcag	300
accagcttta	ttgaattcat	tgagtccaca	ggccagcact	ttgcctgact	gggtcaacag	360
aaatgtccca	tcacagccac	attgaactgc	aacaataatc	aaggccttgg	gaacatccac	420
ctgcaagaaa	aaaatcagaa	aaagaaatcc	caaatatata	attcgtatta	gaaaaaaagc	480
tctcaaatte	tttcaaaaaga	gacatgctgc	atttagcaga	atgactacag	gaaagtggag	540
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tttgagatag	agtttccctc	ttttgcccag	gctggagtga	agtccgtgcg	atcttagctc	660
accgcaatct	cgtctcccca	gggtcaagcg	acttctcctg	tctcagcctc	ccaaatagct	720
gggatgacag	gtgcatgcc	ccacgcccag	ctaatttttg	gattttttatt	agagnatgag	780
gttttgccac	gtaggccaag	ctggncttga	acttctgacc	ctcaagtga	tgccaccct	840
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atttcttttc	ttcttttttt	ttttggnggg	gagettgctn	tgcncccaag	ctgggaaagc	960
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nccc						1024

<210> 77
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>

<221> misc_feature
 <222> (1)...(1024)

<223> n = A,T,C or G

<400> 77

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tttttttttac agaaggctgt aaagctttat tgggagaatt ttaatgaaca aattttccaac      180
ataggagcag cctgcatcat ttcaacgtgc cttcttttaa cactgtgatt gcttttcacc      240
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caangngacc ggtacacttg gcaangccct aacgcccggg ccttttgntt ttctttcctt      900
tcnttttngc acgtttnncc gggttttccc ggnaagctnt naaatngggg ggtcccccnt      960
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<210> 78

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

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<222> (1)...(1024)

<223> n = A,T,C or G

<400> 78

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ttgggcctat ggcggccgag cagttcagtg atgaagcgga accagcaaca cctgaagaag      180
gggaaccagc aactcaacgt caggatcctg cagctgctca ggaggagag gatgaggag      240
catctgcagg tcaagggccg aagcctgaag ctcatagcca ggaacagggt caccacaga      300
ctgggtgtga gtgtgaagat ggtcctgatg ggcaggagat ggaccgcga aatccagagg      360
aggtgaaaac gcctgaagaa ggtgaaaagc aatcacagtg ttaaaagaag gcacgttgaa      420
atgatgcagg ctgctcctat gttggaaatt tgttcattaa aattctccca ataaagcttt      480
acagccttct gtaaaaaaaaa aaaaaaaagta ctcggccgcg accacgctaa      540
gggcgaattc cagcacactg gcggccgtta ctagtggatc cgagctcggg accaagcttg      600
gcgtaatcat ggtcatagct gtttctctgt tgaaattggt atccgctcac aattccacac      660
aacatacgag cccggaagca taaagtgtaa agcctggggg gcctaataag tgagctaact      720
cacattaatt gcgttgccgc tctactgccc ctttncagtc gggaaacctg tctgcccagc      780
tgcattaatg aatcggncaa cgcggccggg aaaaagcggg ttgcgtattg ggcgtcttc      840
gctttcttgg ttacttgact cnttgngcct tggccgttcc gttgcgggna acggtttcag      900
cttacttcaa angcgggaaa tccggttttc cncggaaatc aggggaatac cccnggaaaa      960
gaacttgatg accnaaaggc ccnccaaaag gcccnagnaac cgtaaaaaan ggcccctnn      1020
nntn                                     1024

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<210> 79

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 79

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gcttctttct	ccaggaaaga	tcaaaacgat	gcaactgcaag	gttaacatcc	aatttttaat	180
acattgtgat	tggtccagat	agctgcctta	tccaactgcc	tcctttggac	cacttcatca	240
tgggacagct	tgatgcaatc	tacttgacaa	gacctggaa	ccccacacc	ctcatggaac	300
cagtgtccac	ctcccagtc	cagtgtgacc	ccagggaact	cttgctgct	tgctttaaac	360
ccaccactta	aaagtctcca	cagaaaacct	gtttgaatag	tacctcggcc	gcgaccacgc	420
taagggcgaa	ttctgcagat	atccatcaca	ctggcggccg	ctcgagcatg	catctagagg	480
gcccattcg	ccctatagtg	agtcgtatta	caattcactg	gccgtcgttt	tacaacgtcg	540
tgactgggaa	aacctgtggc	ttacccaact	taatcgctt	gcagcacatc	cccctttcgc	600
cagctggcgt	aataagcgaa	gaggcccgca	ccgatcgccc	ttcccaacag	ttgcgcagcc	660
tgaatggcg	aaatggacgc	gccctgtagc	ggcgcatata	gcgcggcg	gtggtggtg	720
ttacgccga	gcgtgaccgc	tacacttgcc	agcgccctta	cgcccgctcc	tttcgctttc	780
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cctttagggt	tccgaattan	tgctttacgg	gaccttganc	ccccaaaaact	tggnntaggg	900
gtgagggtca	cgtatgggcc	attggccctg	aaaanacggt	ttttcgcccc	tttgaccctt	960
ggaatcncgt	nnnttttaaaa	ggggactttg	gtcccaactg	ggacaacnnt	taacccttta	1020
ttng						1024

<210> 80

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 80

gnagnnnnnn	ttnnnttgng	aattgggccc	tctagatgca	tgctcgagcg	gccgccagtgt	60
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gttttctgtg	gagactttta	agtgggtggg	ttaaagcaag	caggcaagag	ttccctgggg	180
tcacactgtg	actgggaggt	ggacactggt	tccatgaggg	gtgtgggggt	ccagggtctt	240
gtcaagtaga	ttgcatcaag	ctgtcccag	atgaagtgg	ccaaaggagg	cagttggata	300
aggcagctat	ctggaccaat	cacaatgtat	taaaaattgg	atgttaacct	tgcatgtcat	360
cgttttgatc	tttccctggag	aaagaagctg	gtgcaaatga	caaaaacagt	acctgcccg	420
gcggccgctc	gaaagggcga	attccagcac	actggcggcc	gttactagt	gatccgagct	480
cggtaccaag	cttggcgtaa	tcattggtcat	agctgtttcc	tgtgtgaaat	tgttatccgc	540
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gagttagcta	actcacatta	attgcgttgc	gctcactgcc	cgctttccag	tcgggaaacc	660
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gggatnacc	cnggaaaaga	acatgtgaan	ccaaaaggcc	acaaaaagg	ncnnggaacc	900
gtnaaaaang	gccnnttnn	nnctgngttt	ttccattaag	gttcccgccc	ccttgacagc	960
ctttccaaaa	attcganncc	ttcaaantnc	aaagggggcn	aaaacccnc	cggggctttt	1020
taag						1024

<210> 81

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 81

gngnnnnnnnt	taacttacac	gccagcttgg	taccgagctc	ggatccctag	taacggccgc	60
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cagtgtgctg gaattcgccc ttctgagcgg ccgcccgggc aggtacctca ttagtaattg 120
ttttgttgtt tcattttttt ctaatgtctc cctctacca gctcacctga gataacagaa 180
tgaaaatgga aggacagcca gatttctcct ttgctctctg ctcattctct ctgaagtcta 240
ggttacccat tttggggacc cattataggg aataaacaca gttcccaaag catttgagaca 300
gtttcttgtt gtgtttttaga atggttttcc tttttcttag ccttttctctg caaaaggctc 360
actcagtcct ttgcttgctc agtggactgg gctccccagg gcctaggctg ccttcttttc 420
catgtcccac ccatgagccc tccactggac agctcagtaa gcctggccct tcattctgcg 480
ctgtgttctt cctctgtgaa aatccaatac ctcttacctc ctctgcatgc aaagattctc 540
aaggattgtc agacttcaaa cgtaacagca gaaccaccag aaggtcctat aaatgcagta 600
gtgaccttct caagctgtca ggtcttttaa taggatttgg gatttaatgc tatgtatttt 660
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atctgcccc aaactttttt naaaagtcaa gacagataaa gctttggggg agacngaaaa 780
aaaaannnnn nnnaaagagt accttnggcc gggaacacgc taangggcaa attctggcan 840
aaatncatta cactgggcgg gcggtttgag cattgcntnt anangggccc aattngncct 900
ataanggggg cgattacaat tncctgggccc gcgtttttaa acgtningaac tgggaaaanc 960
ctggggtnc cactntaatg gccttggnga naatccccct tttncnncan tggngnannn 1020
nnnnn 1024
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<210> 82

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 82

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atatctgcag aattcgccct tagcgtgggc gcggccgagg tactcttttt tttttttttt 120
ttttccgtct ccccaaagct ttatctgtct tgacttttta aaaaagtttg ggggcagatt 180
ctgaattggc taaaagacat gcatttttaa aactagcaac tcttatttct ttccttttaa 240
aatacatagc attaaatccc aaatcctatt taaagacctg acagcttgag aaggtcacta 300
ctgcatttat aggaccttct ggtggttctg ctgttacgtt tgaagtctga caatccttga 360
gaatctttgc atgcagagga ggtaagaggt attggatttt cacagaggaa gaacacacgcg 420
cagaatgaag ggccaggctt actgagctgt ccagtggagg gctcatgggt gggacatgga 480
aaagaaggca gcctaggccc tggggagccc agtccactga gcaagcaagg gactgagtga 540
gccttttgca ggaaaaggct aagaaaaagg aaaaccattc taaaacacaa caagaaactg 600
tccaaatgct ttgggaactg tgtttattgc ctataatggg tccccaaaat gggtaacctt 660
gacttcagag agaatgagca gagagcaaag gagaaatctg gctgtccttc cattttcatt 720
ctggattctc aggtgaactg gtaaaaggga gacatttgaa aaaaatgaaa cnaccaaaac 780
cattactaat gaggtacctg ccnnggcngg ccgttcnaaa gggccaattc cacacactgg 840
gcggccggtt cttaatggat ccnaactcgg taccaancnt tgcgtaaatc atggggcnnnt 900
actgggttnc ctgggggnaa atggtatncc gttaccaatt ccccccaann ttcgancccg 960
gaanccctta agggtaaanc cctggggggc ctnaagaggg gctaacttcc catttaaattg 1020
ggtt 1024
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<210> 83

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 83

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ccagtgtgct ggaattcgcc cttctgagcg gccgcccggg caggtagact taaaattggg 120
gccgagcagg gatataacct gcagttaagt gaaaagaaaa tccagcctcc ccctccaaaa 180
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aaaaaaaaaa	atttaatttt	taaaaattag	tggtatggca	ataagacact	tcagaggcta	240
tcttaacctc	tgaataccca	tcttctagtt	taaagacaga	gacatcccat	ctggaaaatg	300
ttacttggtg	ttgtcatctc	gttgccggag	taagtagaca	taagacagag	tttaagaagt	360
aaaaatatag	aaaaattttg	atggtcacaa	tgagataaat	attagaatat	tactattcca	420
atgattaaat	gaggatcttg	aaataaattc	tgaagtcttc	caattttttac	atttattgga	480
ggggtccctg	agttctgtca	acttttttat	ttaagtctct	tgctcttatt	ttgtgcataa	540
atgttaaacc	ttccaaaaat	gaaatgtag	ctttctttct	tttacttttt	attaaattta	600
atagaaaata	tgacctgagt	agttaaaaag	tattttgcat	tatttgagc	aagatgtctc	660
tagcactgct	caaagggcaa	attttaaaac	ttcagtcctg	gtgaaagatt	ttgctagttt	720
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tgggatgctg	gcttaagaat	tctttccaag	gncatgtttg	tgaaataaac	cttacatgag	840
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ctaagtgtaa	nctatcccaa	atgggctatc	caaatttgaa	tgngngccct	catactgnga	960
aggaaaaang	tggnccctng	ccgggaacac	ccttangggc	caattttgag	anttccttac	1020
aatt						1024

<210> 84

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 84

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tgtagtggca	cacattcaaa	atcgtataga	ccatatgagg	atagattaca	acttagaaac	180
taaaataaat	ttgttcaaca	ctccagacaa	catatagtgt	agatgacagg	aaagctctca	240
tgtaatgttt	atttcacaaa	catgaccctg	gaagaattca	taagacagca	tccagtcac	300
ttacatgaga	aaagaaaaac	cagcttgagt	ttaagatagc	aaatctttct	gtaaaaactag	360
caaatctttc	accagactg	aagtttttaa	atttgccctt	tgagcagtgc	tagagacatc	420
ttactgcaaa	taatgcaaaa	tactttttta	ctactcaggt	catattttct	attaaattta	480
ataaaaagta	aaagaaagaa	agctaacatt	tcattttttg	aaggtttaac	atztatgcac	540
aaaataagag	caagagactt	aaataaaaaa	gttgacagaa	ctcagggacc	cctccaataa	600
atgtaaaaaat	tggaagactt	cagaatttat	ttcaagatcc	tcatttaatc	attggaatag	660
taatattctt	atatattatc	cattgtgacc	atcaaaaatt	ttctatatatt	ttacttctta	720
aactctgnct	tatgnctact	tactccggga	acgagatgac	caccacaagt	taacattttc	780
cagaanggat	gtctctgnct	ttaaactaga	aagatgggta	tttcagaggg	taagaataacc	840
ctctgaagtg	gtcttaatgg	cataccccta	attttttaaaa	antaaaattt	tttttttttt	900
tgggangggg	aaggctggat	ttcctttcnc	ttaacctnga	gggtatatcc	cctgnttggg	960
acccaatttt	aagngnacct	ggcccgggcn	ggccgttcaa	aagggcgaat	ttccgcncct	1020
gggc						1024

<210> 85

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 85

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ttctcgttct	gagggacagg	cttgagatcg	gctgaagaga	gcggggccag	gctctgtgag	180
gaggcaagac	acagtgggtc	gcaggatctg	acaagagtcc	aggttctcag	gggacagggg	240
gagcaagagg	tcaagagctg	tgggacacca	cagagcagca	ctgaaggaga	agacctgcct	300

gtgggtcccc	atcgcccaag	tctgccccac	actcccacct	gctaccctga	tcagagtcac	360
catgcctcga	gctccaaagc	gtcagcgctg	catgcctgaa	gaagatcttc	aatcccaaag	420
tgagacacag	ggcctcgagg	gtgcacaggc	tcccctggct	gtggaggagg	atgcttcac	480
atccacttcc	accagctcct	cttttccatc	ctcttttccc	tcctcctctt	ttcctcctcc	540
tcctcctgct	atcctcta	accaagcacc	ccagaggagg	tttctgctga	tgatgagaca	600
ccaaatcctc	cccagagtgc	tcagatagcc	tgctcctccc	ctcggtcggt	gcttcccttc	660
cattagatca	atctgatgag	ggctccagca	gccaaaagga	agagaagtcc	cagcacccta	720
caggctcctgc	cagacagtga	gtctttaccc	agaagtgaga	tgatgaaaag	gngactggat	780
tnggtgcagt	ttctgntntt	taagtntcaa	atgaanggaa	ccgatcncaa	anggccgaaa	840
tncttgga	agtgnctna	aaaaattatg	aagaacnntt	tcccttgng	gttaangaaa	900
ccctccaan	gcnnngnngn	ngnctttgg	gcnttgangn	nnaanggnaa	gggatcccn	960
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cnnn						1024

<210> 86

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 86

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gtgatggata	tctgcagaat	tcgcccttag	cgtggctcg	gccgaggtag	tccaggtagt	120
tttctgcac	ccaatcttgg	gtgagcagct	tcttgggctc	cccataaatg	aggtgctcca	180
tcccatcata	cagccccatc	atattcagtg	cttcccagat	gacctcctca	ggggtgcagt	240
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cttcactaaa	caacaaagg	aagtggctct	cataattttt	tatgaractc	tccagtattt	480
ctgcctttgt	gateggctcc	ttcatttgat	acttgaagag	cagaaactgc	accaaactcg	540
tcaccttttc	atctatctca	cttctgggta	aagactcact	gtctggcagg	acctgtaggg	600
tgcttggact	ctcctccttt	tggctgctgg	agccctcatc	agattgatct	aatggaagg	660
aagcaacgac	cgagggggag	gagcaggcta	tctgagcact	ctgggggagg	aattgggtgtc	720
tcatcatcag	cagaaacctt	ctctgggggtg	cttgggtatta	gangatacag	gaggaggagg	780
angaagaaga	ngaagaagg	aaagaggatg	gaaaagaagg	actgggtgga	aatggatgat	840
gaagcatnct	tcttcacagc	ccaggggaac	ctgtgcaccc	ttnaaggggc	tggggcttac	900
ttttgggaat	tgaagaactt	ntttaggcnt	gccannngnt	tacccttttg	gancccttnag	960
ggcctnaagn	acctttganc	angggnnncn	nnnnnnngga	attgggcncg	gaaatttggg	1020
ccna						1024

<210> 87

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 87

gggnnnnnnt	taactcatac	gccagcttgg	taccgagctc	ggatccctag	taacggccgc	60
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gttccagcat	ctttggtagc	ctgacgctga	gagtcattaa	agtaagctgg	cactgtgacc	180
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accatagaag	acacctcctc	tggatagaag	cttttggctc	ctcccttgta	ttctacttgg	300
accttggggc	tgccagcatc	attcaccacc	ataaaggggc	aatgtttcat	atcagactgg	360
acaacagcat	catcaaatct	gcgtccaatc	agacgtttgg	catcaaaaac	tgtgtcgggtg	420

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gggttcattg caacttgatt ctttgccgca tcaccgatca accgttcagt gtccgtaaag 480
gcgacatagc ttggagtggt tcggtttccc tgatcattgg caattatctc gacttttccg 540
tgctggaaaa caccacacac agagtaggtg gtgccaagat caataccaac tgcaggtccc 600
ttggacatgg ttgctgggat gtaggcctgg ctccaataac gaaggaagcc aaaaaaacc 660
aagagctgca ggcgaagtc aatgagaccc cccgcggacc tgcccgggcg gccgctcgaa 720
agggcgaatt ctgcagatat ccatacact ggcgccgnt cgagcatgca tctaganggc 780
ccaattcgcc ctataagnga gtcgnattac aatcacttgg ccgctgttta caacgtcgtg 840
acttgggaaa accctggggt acccaactta atcgncttgn agcacaatcc ccttttncc 900
anctggcgga antnaccnaa aaggcccgna ccgaacggcc ntttccaaa gttgcnaaan 960
cctgaaangg caaaaggacc ccccccttta acggggccat taaaccccn ncngggnnnn 1020
nngg 1024

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<210> 88
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 88
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tcgcctgcag ctcttggggt tttgtggctt cttcgttat tggagccagg cctacatccc 180
agcaacctatg tccaagggac ctgcagttgg tattgatctt ggcaccacct actcttgtgt 240
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tccaagctat gtcgccttta cggacactga acggttgatc ggtgatgccg caaagaatca 360
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tgatgatgct gttgtccagt ctgatatgaa acattggccc tttatggtgg tgaatgatgc 480
tggcaggccc aaggtccaag tagaatacaa gggagagacc aaaagcttct atccagagga 540
ggtgtcttct atggttctga caaagatgaa ggaaattgca gaagcctacc ttgggaagac 600
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cgaattncag cacactggcc ggccgntact taatggatcc gaactcggta ccaagccttg 780
cgtaactatg gnccatactg gtttctgngg tgnaatgggt attccggtca caattncnca 840
caacattcca anccggaagc cttnagtgtg aagccctggg tgcccttaag agtgagctta 900
ctnncantta aatgcgttgc gcttntttgg ccgttttcca tcgggnaaan ctgngccaa 960
ctggatttaa ggaattggnc aannccccgg ggaaaaaagn gtttggtatg gcgcttttnc 1020
gttt 1024

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<210> 89
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 89
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ttcacagtgc tgtgcaaaac atttctatct tgcaaaaccg aagttctata tccactaaac 180
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ttccaacang	ccccaaactcg	cattaaggat	acctttcnaa	nntaagggtt	gggggggacc	840
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aaatttttta	aggantccca	acccttttaa	ngaactaaag	gtttcccgna	nnnngaaaag	960
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<210> 90
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
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 <222> (1) ... (1024)
 <223> n = A,T,C or G

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tataactcag	aaatcagtaa	acaagtcttt	tcccaaagta	agttccttct	aaatgtagct	240
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gaaagaaaact	ggagacactg	ttcatagcag	ctgatatagt	ttggatatatt	gtccccaccc	540
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aaccaaccca	ggtccattgg	nngggcnaag	gnttaacnaa	acnggggnntc	ccntgcncna	960
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<210> 91
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
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 <222> (1) ... (1024)
 <223> n = A,T,C or G

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ggacgttgcc	caaaggtagg	aagaaagcag	agggaaatat	ttcagtcatc	atttccaaag	240
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gagnagcctt	aaaaaggggg	caangtaang	gttttcnggt	atggaagcca	aaanttttnc	960
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<210> 92

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 92

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tgaaatgatg	tgtagatttc	aatctaataa	cagctcatcc	aatgacaaa	tatggtcgaa	180
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tctagcatgt	aataaataat	cgctagccat	actcaataag	acacggaaaa	attattgctt	300
acataacaga	aaaacatcta	cttgaccccc	ttttatgact	acatcaatct	attaggagtg	360
tatccatagt	ctacattcac	aaaatgtcat	cttgacttat	tgccattga	tttaaggcag	420
aataaatagt	ccccctttcc	ccagtcttaa	caacaaaaaa	caaaaaacca	gcctggagat	480
ctacattgtg	atgcttttta	ataacttgac	tcctttcttg	gccagctgaa	actcgtcgca	540
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ggtcgcggagt	tcttgatagc	aaaaaaaagtg	atggggagaat	ggaggagaag	taggtattca	660
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ctgtgcttta	ngccctttta	ggagaacttg	ncanccangg	gtgagcagtg	cttcacacct	840
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taatggaaga	ctcctnaatt	agnggccttg	aaaagaagca	ggcaccggaa	gggcctgagg	960
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<210> 93

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

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<222> (1)...(1024)

<223> n = A,T,C or G

<400> 93

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ccttttcctag	tatttccaag	tcttagagta	ctctacaccc	tgttggctat	ttatctgggg	300
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<210> 94
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 <212> DNA
 <213> Homo Sapien

<220>
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 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 94						
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acaaccaga	agggaaaagg	gacccgtcaa	ggaagtcca	ggaacaaaag	gctctcccta	420
aaagaccacc	gcttcaaaaa	aacctgagga	atggagtggg	ccaacactat	ccagccactc	480
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gaccaccgcc	ttctccagtg	cttccttggg	cagccagtaa	ttcccaggca	agggcagaga	600
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caactcgnc	caaannttgn	gnaaacatgg	gmnnaatgg	gntcctgggg	ggaaatgtat	960
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gccc						1024

<210> 95
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
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 <223> n = A,T,C or G

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atgctttggg	aactgtgttt	attgcctata	atgggtcccc	aaaatgggta	acctagactt	660
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caatttnant gggcccggtt ttacaacgtn nggaactggn aaaaccctg gggtnnccca 960
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 cnaa 1024

<210> 96
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 96
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 cactcagtcc cttgcttgct cagtggactg ggctccccag ggcttaggct gccttctttt 420
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 aaaaaannnn aaaaagtacc tgcccgggcn ggccgttcna aaggcgcaaa ttcaacacac 840
 tggcgggccg gtacttaatg gatcccaact cggncccaac cttggggaaa ncatgggcn 900
 taactgggtt cccggggggn aaatggtatt ccggttacaa attcccccc annttcana 960
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 tnaa 1024

<210> 97
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (1024)
 <223> n = A,T,C or G

<400> 97
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 tgttgtccaa actggtcaat ccagttgctt aacacagaaa gcggacagat gatcagtgtt 180
 gttcttggtc tctcctcaac atcagttttc tttgacctt cactgcaca agctcccttt 240
 ttcaacattt tcttttttgt tgtaggaaca gatgaagtta atgcacatgc aaatgccaca 300
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 gagagagaga gaaagagagc acgccagtga gaaagcgagc gcgagcgca gcgcaagggg 420
 aggagagggt gggagagggc ggaaggggga aagctgtccg tgggagattg tgtcttcattg 480
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 aaaggcaggg ggaggggcag ggagcaacag aagggaagaga caacaagccc aagacagctt 600
 ccatctcaga cggaggccc ccagaagata gaattccagc cgactgaaaa accaccaat 660
 gaacaaagaa gattctagaa aatagaagtg ttgggattac aaagttgngc gtttcatcgg 720
 tacctgcccg ggcggnegnt caangggcga attctgcaga tatccatcac actggcggn 780
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 ttgggcccgc ttttacaacg tctgacttgg naaaancctt gnggttnccc aacnttaaac 900
 ggcnttgag nacaattccc ctttttncca anntggggna antnaccaaa agggcccn 960
 accgatggnc cttttncaaa aagttggggc aaccttgaaa gggcaaaagg gccccccct 1020

ttaa

1024

<210> 98
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 98
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ttgtaatccc aacactttct attttctaga atcttctttg ttcattgggt ggtttttcag 180
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tggaggggtc aaagaaaact gatgttgagg agagaccaag aacaacactg atcatctgtc 660
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aan 1024

<210> 99
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
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<222> (1)...(1024)
<223> n = A,T,C or G

<400> 99
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agagggtaaa atgaaatctg ccccatcctt cttacatata cagtgatagc attttgaatt 180
gttcttctac atttgaaatc ttagctgaaa gatcatcagc caccgacctt ttgtgaagct 240
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aaccaacgat aaatggagct tgtgcagaat ctggcagtg tgtggacctg cccatctgtt 360
ctcccccgcg tactgactga acacactccc cgctttgggt cctgtaggac gggtagata 420
ccacaccttg gcaaccacca gtaaaggctc atagtctagc ccttgggagg ccccgatttt 480
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nnnt 1024

<210> 100
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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gccagattct gcacaagctc catttatcgt tggttcttgc ttttttcctt ctgtgttttt 360
aattttttta aaaacattgt atgttctaga gaactagctt cacaaaagggt cggtggttga 420
tgatctttca gctaagattt caaatgtaga agaacaattc aaaatgctat cactgtgtat 480
gtaagaagga tggggcagat ttcattttac cctctagtct ccctcaatgc atgcacggat 540
ttatctgtac ctgcccgggc ggccgctcga aaggggcaat tccagcacac tggcggccgt 600
tactagtga tccgagctcg gtaccaagct tggcgtaatc atggtcatag ctgnttcctg 660
tgtgaaattg ntatccgctc acaattccac acaacatacg agcccgggaag ccataaagtg 720
tnaaagccct ggggtgcctn atgagtgagc taactcacat ttaattgcgt tgcgctcact 780
ggcccgnttt cagtcgggaa aactgcntgc cactgcttaa tgaatcggcc acgccccggg 840
gaaaaagcgn ttgcgtantg ggcgctnttc cgctttcctg gttaactgac tcnttgggct 900
ttggccttng gnttnnggnn aacgggttna acttncnttn aaangggggg naatccggtn 960
tnccccgaaa nncggggata acccccggaa anaactttgn ccnaaaggcc cccnaaangg 1020
cccn 1024

<210> 101
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

<400> 101
gggnnnnnnt tgaatnacac gccagcttgg tacegagctc ggatccctag taacggccgc 60
cagtgtgctg gaattcgccc ttagcgtggt cgcgcccgag gtacgcgggt attttcttaa 120
atttcttgaa tgttctttat ggtagtgtta ctaaaaagtt tatgatcaca ttttcattgt 180
gaacataatt tgaactcatt atcacacact tggaaaatac agaaaagtgg aggaaaaaaa 240
atcatatccc caccatccaa agacatatac tctcctctta tcttgttcat tcttgtttct 300
gtgcacaggt ttatgattat aactgtgtca aaatgtatat tcaaaatagc tgttacatta 360
cctttgtgga attatggtta aatactttca ctttaatttt ttcaaagtgt ccctataata 420
atgttctgat aacagtgtat tatgtgtgtc tccattgggtg tgcataatac ataccagag 480
gaaaaattag aaaataaagt aaattatttt aaaaaattac ctatattccc aacacctaac 540
aactactgct aacatcttga tctgtttcct ctatcttgtt tcagtgcaca cgcttgtgat 600
aacagtgtta aatatgtgtg cataaagctc taaatgaaaa gatgtggaaa ataactaaaa 660
tagtgttgtc attgtgggaa tttggttaaa tattttgtct caaattcctt aaataactct 720
tggtgttttg gtaataaatt ttaatgatgt attttccatt acaaatataa tacatactca 780
tacaaaactt tggaaaatta gtaaaagaaa ttcacacata ttcccacacc caacaccaat 840
ttaactggn accatctgga ctgngcncta agctgggatt antttaggng tagtggataa 900
gtatgcctaa aggccaaaaa tgggaagaag gatgaaaanc cngaaaatan ttnccttgg 960
gtngggggaa taaggggaat ttgggttcgg ttcctttgaa agggcatnnn tttcaagggg 1020
tttg 1024

<210> 102
<211> 1020

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1020)

<223> n = A,T,C or G

<400> 102

ggagnnnntt	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gccctttcga	gcgcccgccc	gggcaggtac	tctttctctc	ccctcctctg	120
aatttaattc	tttcaacttg	caatttgcaa	ggattacaca	tttcaactgtg	atgtatatattg	180
tggtgcaaaa	aaaaaaagtgt	ctttgtttta	aattacttgg	tttgtgaatc	catcttgctt	240
tttccccatt	ggaactagtc	attaacccat	ctctgaactg	gtagaaaaac	atctgaagag	300
ctagtctatc	agcatctgac	aggtgaattg	gatggttctc	agaaccattt	caccagaca	360
gcctgtttct	atcctgttta	ataaattagt	ttgggttctc	tacatgcata	acaaaccctg	420
ctccaatctg	tcacataaaa	gtctgtgact	tgaagtttag	tcagcaccct	caccaaactt	480
tatttttcta	tgtgtttttt	gcaacatatg	agtgttttga	aaataaagta	cctcgccgc	540
gaccacgcta	agggcggaatt	ctgcagatat	ccatcacact	ggcgccgct	cgagcatgca	600
tctagagggc	ccaattcgcc	ctatagttag	tcgtattaca	attcactgcc	cgctgtttta	660
caacgtcgtg	actgggaaaa	ccctgcgtta	cccaacttaa	tcgccttgca	gcacatcccc	720
ctttcgccag	ctggcgtaat	aacgaaaagc	cccgaccga	tcgccccttc	caacaggtgc	780
gcaacctgaa	tggcgaaatg	gacccccct	ggaaccggcg	cantaaacc	ccgncggggn	840
nnngggtaac	ccccacggg	ganccgttca	cttgccann	gccctaangn	cccgttccct	900
tnggtttctt	tccttccctt	ttgcccgttt	gnccgggttt	tcccggnaag	ctttaaaaac	960
gggggcctcc	ccctttangg	gtcnaataa	nggcttttac	gggnccttng	aaccccaaan	1020

<210> 103

<211> 1021

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1021)

<223> n = A,T,C or G

<400> 103

ggagnnnntn	ngnngggccc	tctagatgca	tgctcgagcg	gccgccagt	tgatggatat	60
ctgcagaatt	cgcccttagc	gtggctcgcg	ccgaggtact	ttattttcaa	aacactcata	120
tggtgcaaaa	aacacataga	aaaataaagt	ttgggtgggg	tgctgactaa	acttcaagtc	180
acagactttt	atgtgacaga	ttggagcagg	gtttgttatg	catgtagaga	acccaaacta	240
atttattaaa	caggatagaa	acaggctgtc	tgggtgaaat	ggttctgaga	accatccaat	300
tcacctgtca	gatgctgata	gactagctct	tcagatgttt	ttctaccagt	tcagagatgg	360
gttaatgact	agtccaatg	gggaaaaagc	aagatggatt	cacaaaccaa	gtaattttta	420
acaaagacac	ttttttttt	gcaacacaat	atacatcaca	gtgaaatgtg	taatccttgc	480
aaattgcaag	ttgaaagaat	taaattcaga	ggaggggaga	gaaagagtac	ctgcccgggc	540
ggccgctcga	aaggcggaat	tccagcacac	tggcgccgct	tactagtggg	tccgagctcg	600
gtaccaagct	tggcgtaatc	atgggtcatag	ctgnttctct	tgtgaaattg	gtatccgctc	660
acaattccac	acaacatacg	agcccggag	cataaagtgt	aaagccctgg	ggtgcctaata	720
gagtgaagta	actcacatta	aatgcgttgc	gctcactggc	cgctttncag	tccgggaaac	780
ctgtcgtgcc	agctgcatta	atgaatccgg	ncaacgccc	ggggaaaaag	cggttgcgta	840
ttggggcgctc	ttncgctttc	ttgggttactg	gctccttng	cctcgccgct	tccgnttcg	900
gnnaaccggt	atcagcttac	ttcaaangcg	gnaaatccgg	tttnccong	aatccggggg	960
ttaacnccag	gaaaanaacc	tttgaaccna	aagggcccn	aaaaggggcc	ggaaccctaa	1020
a						1021

<210> 104

<211> 1017

<212> DNA

<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1017)
 <223> n = A,T,C or G

<400> 104

ggagnnnntta	atcnacgcn	gcttggtacc	gagctcggat	ccctagtaac	ggccgcccagt	60
gtgctggaat	tcgcccttag	cgtggtcgcg	gccgaggtag	tcagctgtct	taataggatg	120
aagccttaag	cagtggaaat	ttcagttatt	ttccacagta	ttccattttg	gaggatttgg	180
ggtgtttact	ttttaaatc	ttgaacaact	taacctccat	gaggctttgt	gaagtcagct	240
gtgaccaccc	tcctcttact	gtgtttctcag	tattcattca	cttccaggga	agaatgacag	300
ccacagggag	atgggtggtg	gcaagaatga	gagtcgccagg	atccagattt	agcctcagat	360
cttccccatt	caggaagggt	tttccattta	acaagagcac	tagtatgaaa	acattagggg	420
caaactctcc	atgtctttga	aattcggatt	ctcctcttga	gatccccctc	ctcacctgcc	480
aatcaacttt	ataaggccac	aagtggtcac	tggttttctt	tccacagggt	tgaggttctc	540
agctttcctt	aagcgaccca	gcagctccgc	tgttttcaga	gtgaatatgt	taagctttga	600
tgagattcta	ttttcagtaa	gttagtgctt	ctgggacact	tggagaaagc	tgtgagagtc	660
attggctacg	caaagaacaa	cgaaagctga	tcctaaaagt	gatccaatct	aagaaaatgg	720
taaaacgagc	tctggccaca	gcacagaatt	ttatgtgang	aactcagatt	tttgaagact	780
taacaattgc	agaaaaaggn	tgcagcctgn	acacccatag	cccaactttt	ntgagccana	840
ctttgggttt	tggnggggga	cntggcacca	tgtttgnacc	tggccggccg	gnccgttcna	900
aagggccaaa	ttntggcnga	aatnccttac	actggggggc	cgtttgagca	tgctntaaa	960
ngggcccaan	tnngccctta	aaggggggcn	nnttccaatt	nnctggggcc	ggttttn	1017

<210> 105
 <211> 1024
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1024)
 <223> n = A,T,C or G

<400> 105

ggagnnnntt	nnntnnngan	tgggcccctct	agatgcatgc	tcgagcggcc	gccagtgtga	60
tggatatctg	cagaattcgc	ccttttcgagc	ggccgcccgg	caggtacaaa	catgtgccac	120
gtcaccacac	aaaaccaaag	tctgtctcaga	gaggtgggct	atggtgtgea	ggctgcaacc	180
tttctctgca	attgttaagt	cttcaaaaat	ctgagttcct	cacataaaat	tctgtgctgt	240
ggccagagct	cgttttacca	ttttcttaga	ttggatcact	tttaggatca	gcttcgttgt	300
tctttgcgta	gacaatgact	ctcacagctt	tctccaagtg	tcccagaagc	actaacttac	360
tgaaaataga	atctcatcaa	agcttaacat	attcactctg	aaaacagcgg	agctgctggg	420
tcgcttaagg	aaagctgaga	acctcaaacc	tgtggaagga	aaaccagtga	ccacttgtyg	480
ccttataaag	ttgattggca	ggtgaggaag	gggatctcaa	gaggagaatc	cgaatttcaa	540
agacatggga	gatttgtccc	taatgttttc	atactagtgc	tcttggttaa	tggaaaaccc	600
ttcctgaatg	gggaagatct	gaggctaaat	ctggatcctg	ggactctcat	tcttgcccac	660
caccatctcc	ctgtggctgt	cattcttccc	ctgaagtga	tgaatactga	gaacacagta	720
aggaaggagg	gtggtcacaa	gctgacttca	caaagcccta	atgganggtt	aagttggtca	780
agaatttnaa	aagtaacccc	cccaaatcct	ccaaaaatgg	gaatactggg	ggaaaataac	840
ctggaaattn	ccctggttta	aggcttcatt	ctattaagac	cgcttgagta	cccttggccg	900
ngaacccct	taagggcgaa	ntncaacaca	ctggnggggc	cggtacctaa	nggatcccaa	960
ctnggnaccc	aancnttggg	gaaancatng	ggccataact	gggttcccgg	ggggaaatgg	1020
taat						1024

<210> 106
 <211> 1007
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(1007)

<223> n = A, T, C or G

<400> 106

```

ggagnnnnntt aaacgccagc ttggtaccga gctcggtacc ctagtaacgg ccgccagtgt      60
gctggaattc gcccttagcg tggtcgcggc cgagggtadac agaataagctg agcagttcac      120
ttcaggggatc aggtcatctc tgctcctcct agtttcacca tgttctggca ataaaaaaca      180
catattatat cctggttttc tctatccttg cattactaag gtgactgtct ctctttatac      240
atccttgat ggttctccca gtattagcaa gattgtatat ctgtaaagaa tgtccagttt      300
tgtaaatatt tccctgcctt ttttttctt tttttacatc tgattttaat gcttcggttaa      360
cttcaaaagg aactggtaga gttcagaagg tgagctgttg tttttctaaa cctcttccca      420
ggaagggggac attgacactt gaatttttgt cacctttttc ctcattagaa ggaaagtaga      480
aagccttact gtaggatttt taaaaaaaaa tccatctcac cccatattgg tcttaaataa      540
gtatagacta attaacctaa gctaccttta acaacgtaga atttaanatg gggtcatata      600
tgtgagaaaa acctgaatat aggacagggg tctactttt tccccacct ctgtcgccca      660
ggctagagta ntaantggtg gatcttgccc cactgcaacc tctgcttcta gggtaagtg      720
attctcctgc tcagcctncc aagtancccg ggaattggaa gagtatgcca ccacgcccag      780
ctactttttg gaatttttagt nnaaaacagg ttcatcatgn tggncccnga agggcnctta      840
antcctgncc ttnagngatc ccccnanaa ngaaacctg gncnncccaa nnnncnggmn      900
tntagcnnnn ccnccnggcc canncactt tnnnaannnn nnnnnnnnnn nnnnnnnnnn      960
nnnnnnnnnaa nnnngnncnn nccngnnngn cnnnnnnngg gnaantc      1007

```

<210> 107

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (1024)

<223> n = A, T, C or G

<400> 107

```

gnagnnnnnn nngattgggc cctctagatg catgctcgag cggccgccag tgtgatggat      60
atctgcagaa ttcgccctta gggccgccc gggcaggtac ttttttttt ttttttttt      120
tttttttttt aattaattag aaagtaggct gggcacggng gctcatgcct ataatcccag      180
cacttgggga ggccgaggat ctctctctg gnggatcact tgagggcagg agttaagaga      240
ccatcctggc caacatgatg aaaccctgtc tctactaaaa atacaaaaag tagctgggcg      300
tggtggcata ctcttacaat cccggctact tgggaggctg aggcaggana atcacttgaa      360
cctaggaagc agaggttgca gtgggccaag atcacaccac tatactctag cctgggcgac      420
agaggtgggg aaaaaagtag gacccctgtc ctatattcag gtttttctca catatatgaa      480
cccatctaaa ttctacgttg ttaaaggtag cttagggttaa ttagtctata cttattttaag      540
accaatatgg ggtganatgg attttttttt aaaaatccta cagtaaggct ttctactttc      600
cttctaataa ggaaaaaggt gacaaaaatt caagtgtcaa tgccccttc ttggggaaga      660
ggtttagaaa aacaacagct caccttntga acttttacca gttcctttt gagttaaccg      720
aagcnttaaa aatcagatgt aaaaaangaa aaaaaaaggc cgggaaattt ttaccaaact      780
nggacattct ttacagatat acaatcttgc taaaacctgg gaaaaccctt cccnggggtg      840
ttaaagggga aacagtcccc cttataatgc ccgggggttna gaaaancccg gatttttnaa      900
aaaggggttt tattgcccaa aactggggga accttngggg ggncccaaaa nnaacctgan      960
cccctgaagg naccgggttn annnntttt tgggaccttg gccgggaacc ccctttnggg      1020
ggna      1024

```

<210> 108

<211> 470

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (470)

<223> n = A, T, C or G

<400> 108

actatgacca	tgattacgcc	aagcttggta	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgcccgggca	ggtactat	ttttttttt	120
ttttcgtgn	tttgacattc	cttgaatctg	ttttttat	cccttcaca	gaacaggcct	180
gggactttcc	aacaccctgc	taaggaagtt	ctgtgtccaa	gtcccaccca	ggctgggttg	240
tccccacctn	ctncagccca	cacagcccag	gcagcatccg	ggccagtggc	ctgcatgaca	300
naggggtctt	gttgtgtaat	gnttgttccc	aagttgcatt	ttctaaccga	atcagtgtgt	360
tttcatgaaa	ctgagtgtta	ctgtggacca	gtaagttnct	ctgttgtctt	cagtgggtctt	420
cctgtgtggc	tcaagggttc	tctgtgagag	tctggatttt	catttctggg		470

<210> 109

<211> 808

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(808)

<223> n = A,T,C or G

<400> 109

gggcctctag	angcatgctc	gacggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtggctg	cggccgaggt	acaagtctgc	ctaagagaca	gaagtgagtn	ttataatcta	120
cttggccatt	cctcccagca	gagaagcagc	aggtagatat	ggcatgca	gtgctgctg	180
ctgctgctct	tgtggcgaac	actcagatgt	ggaaccatag	agggaccttg	aggagctggg	240
acatgattct	ttagagaaga	gaagagacgg	ggagcacagc	atgagaatgg	ccagtcaacc	300
catttcaaat	tcttttatta	aagtgcctcc	cgaggggctt	tgacaaaaga	tgatggggag	360
agcagaactg	ctgctccttg	acagaactct	gatecttaca	ctttgtttgg	agtgggcttg	420
gggacagtca	caagccatga	aacatgaatc	caaatgggtc	cccagatgag	ccatggtgaa	480
ccaacagatg	caagcaactt	cttaaactgc	tctattaaac	actgctttat	atgtgtcccc	540
atgatacaga	aaagtgggat	ggggccagcc	attccagaaa	tgaaaatcca	gactctcaca	600
gagaaccctt	gagccacaca	ggaagaccac	tgaagacaac	agaggaacta	ctggtccaca	660
gaaacactca	gtttcatgaa	aacacactga	ttcgggtaga	aatgcaact	tgggaacaaa	720
cattacacaa	caaagaccct	ctgtcatgca	gggcactggc	cgggatgctg	ctgggctgtg	780
tgggctggaa	gagtggggga	caaccac				808

<210> 110

<211> 471

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(471)

<223> n = A,T,C or G

<400> 110

actatgacca	tgattacgcc	aagcttggta	ccgagctcgg	atccactagt	aacygcccgc	60
cagtgtgctg	gaattcgccc	tttcgagcgg	cgcccgggca	aggtacagcg	acgtgatgat	120
gtagaggcgc	ttcccatcca	ggctgagctg	gatcatctga	gggcctncag	ccaccggtt	180
tcccttgacc	actaggggct	ctggctggga	ctttagtctc	tcgtcctcca	gcacttgca	240
agggcctccc	ttaacaatgc	tgcttcagag	gaagagctgt	cctgtgaggc	ggggtctctg	300
tgggtcagag	atgtcatact	gcctcaggtc	cccatgcagc	cagttgctga	agtagaggaa	360
gcggctcgcc	agggagagca	ggatgtcggt	gatcaggcct	ggcatttcgg	gcagcagcca	420
gcccttcact	ttcttggggg	gcacctggat	caccttctcc	actgacctg	t	471

<210> 111

<211> 468

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (468)

<223> n = A,T,C or G

<400> 111

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atcccctagta	acggcccgcca	60
gtgtgctgga	attcgccctt	agcgtgggtcg	cggcccgaggt	acttnnttnc	tttntttaca	120
tctgatitita	atgcttcggt	aacttcaaaa	ggaactggta	gagttcanaa	ggtgagctgt	180
tgtttttnta	aacctnttcc	caggaagggg	acattgacac	ttgaattttt	gtcacctttt	240
tcctcattag	aaggaaagta	naaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	300
accccatatt	ggtcttaaat	aagtatagac	taattaacct	aagctacctt	taacaacgta	360
gaatttagat	gggttcatat	atgtgagaaa	agcctgaata	tangacaggg	gtcctacttt	420
tttccccacc	tctgtcgccc	aggctggagt	atagtgggtg	gatcttng		468

<210> 112

<211> 813

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (813)

<223> n = A,T,C or G

<400> 112

attgggcctc	tnnagcatgc	tcgacggcgc	ccatgtgatg	gatatctgca	gaattcgccc	60
tttcgagcgg	ccgcccgggc	aggtaccatg	ctgacttctt	ggtatctttt	anggcctaata	120
tttcccttcc	ttgagattac	tgtagtgtgt	tccagctaata	ttctatttgg	aaacgagttg	180
gaacagctga	aaactaggtg	ttattgaagg	caaagcagcc	tcacgtcagt	tttttatcag	240
ctcatttggg	aagttttntt	ttttttntn	ttaattaatt	agaaagtagg	ctgggcacgg	300
nggctcatgc	ctataatccc	agcacttggg	gaggccgagg	atctcctctc	tggtggatca	360
cttgagggca	ggagttaaga	gaccatcctg	gccaacatga	tgaaaccctg	tctctactaa	420
aaatacaaaa	agtagctggg	cgtgggtggc	tactcttaca	atcccagcta	cttggggaggc	480
tgaggcagga	gaatcacttg	aaccacaggaa	gcagaggttg	cagtgggcca	agatcacacc	540
actatactcc	agcctgggcg	acagaggttg	ggaaaaaagt	nagacccttg	tcctatatcc	600
aggctttgct	cacatatatg	aaccatctta	aattctacgt	tgttaaaggt	agcttaggtt	660
aattagncta	tacttattta	agaccaatat	ggggtganat	ggattttttt	ttaaaaatnc	720
tacagtaagg	ctttctactt	tccttctaata	gaggaaaang	gtgacaaaaa	ttcaagtgtc	780
natgcccctt	cctggggaag	aggtttaaaa	aata			813

<210> 113

<211> 506

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (506)

<223> n = A,T,C or G

<400> 113

nccaacttgg	taccganctc	ggatccctag	taacggcana	cattganctg	atagcccaag	60
cttggtaccg	agctcggatc	cactagtaac	ggncgccagt	gtgctggaat	tcgcccttcg	120
agcggcgccc	cgggcaggta	cgcggggcct	ctggcgctac	catggcgttt	ggcaagagtc	180
accgggatac	ctacgcgacc	tcctgtgggc	acctcataga	aaaggctaca	tttgctggag	240
ttcagactga	agattggggc	cagttcatgc	acatctgtga	cataattaac	actaccagg	300
atggggcaaa	agatgcagtg	aaagctttga	agaaaangat	ttncaaaaac	tacaatcata	360
aagaaatcca	acttaccttg	tcacttattg	acatgtgtgt	gcagaactgt	ggtccaagtt	420
tccagtctct	gattgtgaag	aaggaatttg	ttaaagagaa	tttagttaag	ctactgaatc	480
ccagatacaa	cttgccatta	gacatt				506

<210> 114

<211> 813

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(813)

<223> n = A,T,C or G

<400> 114

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gggcccntnn agctgctcga gcgcccgcca gtgtgatgga tatctgcaga attcgccctt      60
agcgtgggtcg cggccgaggt acaacttatt ctaaataattt tcattttctg tgttctaaat      120
agaaatatta agttgcagta aaaagagaaa aaaaggctat ttagcattac aaagaatcat      180
atttaaaggc tgcccaatgt agagtctagt gacctgttca ggacacctga aatataatta      240
aatgacaatt atcaagggtt taacaattta taattctaaa ccagaggatt ataaagaagt      300
gcaaattgac ttttacattc aacttttagt aaatgaaggc actcagtatt ctctctgaat      360
aatacattca gtttctcaca ttttatgctt tcatctatc agaattattt catagtaaaa      420
taatctactc ttatcacagc tgtgtgacga tttctaaatg taggaaggcc tgtgaaacat      480
gacactgcag ttaaattggt tggcctaagg actaagtaat ttttcttctg ctgaagtttt      540
aagtgagtat ttgttccaaa caagttctgt tgaaatctca cgtgtgtgtc aggaatcagt      600
gttatcctgg aactgttatt ctatttaatc ttcattatag cagaaatgtg ccaccatggc      660
tttgacatgt tggtaggtat tgtcttccag gcttcaaagc tgcacagagt ctacgtttta      720
gagagttggc acctttgatg tggtagtgag ctgatcatnc actttcttct cagtcaccat      780
cattttgagc tcctttgtgc tggtagcat can                                     813

```

<210> 115

<211> 471

<212> DNA

<213> Homo Sapien

<400> 115

```

accagctatg acctgattac gccaaagcttg gtaccgagct cggatccact agtaacggcc      60
gccagtgtgc tggaattcgc ccttagcgtg gtcgcggccg aggtaccatg attttgtgtt      120
caggaaacaa agaacatgaa atattacatt cttcagaatg tttttcttgt gccattaaat      180
gaatcaagta aatgaggcaa tgaggcacia ataaggaatt tagatttcag caatattttg      240
atccactgta gctttcagtt tctgaaactt tgggaaggcc tacatacttt gtaagaattt      300
ttggcttata ttgttaataa tcaacagagc caagaaaaaca tttcttagaa tgttcaaaga      360
caccacctta gccttccttc cctgcagcta taacattatt tttctaagag aaaaggcaga      420
gagtcttcac aaagccatac cagacttaaa attaccagag aacatttttg t                                     471

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<210> 116

<211> 818

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(818)

<223> n = A,T,C or G

<400> 116

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ttncannggg cccctagagc atgctcgacg gccgccatgt gatggatatt tgcagaattc      60
gccctttcga gcgcccgccc gggcaggtag tttttttttt tttttttttt tttttttgtg      120
tgtggtcttg aactcctggc ctcaaatgat ctctctgcct cagcctccca aagtcctggg      180
attactggca tgagtcacca cactcggctc attctttttc ttaatatggc tctaaatggc      240
tttttatttt ttttgctttg gcaatttatt tctaggaaat taaataattc tttcattata      300
atcaagggaa tgaaagactt caggaggtcc atagtggagt tcaaaacat atggagttca      360
ctattctaca agattatata ggcaataata taagtattct aagggtgttt aggtagattt      420
atagatgtta gatttcaaaa tgggttaata agtgtttatg aatttccaag gtgtatcact      480
aacttctcaa gatgaaatca tatatagaaa ctatcaaaat tttccttgtt ctgctgtcaa      540
gaaatgaata atatacactg atataactgt aactcacatc taaagggata gtgcttgaat      600
aagctaattt acaatgagtt caaggattta ttttaaaatt cttattgncc ttagacaata      660
attatgcaa caaatgtgaa aaatattaaa tctccttctg ntaatttttc cagttttatt      720

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acccaaaagt cacacaggta atgcaagtca tgaaataaat caaatgagcc cttcctggag 780
agcctacttt atttaccttg ggaaaatgga tgacatnt 818

<210> 117
<211> 467
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (467)
<223> n = A,T,C or G

<400> 117
accactatga cctgattacg ccaagcttgg taccgagctc ggatccacta gtaacggccg 60
ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg caggctactac tggttttctc 120
cctggcttca cgtgtctctg tgttccccta tgcctggggtg tctctccagt gctttcaggc 180
ttcatctcct tccaaacctc tcttttctat tttttttttt ttttttgaga tggagtcttg 240
ctcagtcgcc cangctggag tgctaacctc tcttttcatg tggagatgga cagggatggc 300
aggagcactg agtgctcttg acaacacccat tgaagatgat gctgacgatc agctaccctg 360
tggagaaggc aggccaggct gggtagaggg ggagctcctt ggaagtcagg gggctctgtaa 420
ggacagcaag gatctctttg tcccaacctc cagcagcctt tatgggt 467

<210> 118
<211> 815
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (815)
<223> n = A,T,C or G

<400> 118
gggcctctna agcatgctcg acggccgccg tgtgatggat atctgcagaa ttcgccctta 60
gcgtggctgc ggccgaggta cctgggggtct cagggttgct ctgggcctga tcatccactc 120
agatctgtaa ggaggatttg caggatccat ttagaaagat cctcccttac ttccacaagc 180
atggcctttg gctcttaaat acctgtgctg gggttttgta attatagaaa caacaggaac 240
caaaactcat taatgttgag ctacaaacca gagggaagct tctttctcaa aacagggtc 300
aggcctagaa aaatctagtt ttctgaaatc gctagccagc aacagcactg agatggccat 360
cccagaaaca aggccaacac agaagcacc ctaaaaggctg ctggagggtg ggacaaagag 420
atccttgctg tctttacaga cccctgact tccaaggagc tcccctctca cccagcctgg 480
cctgccttct ccacagggtg gctgatcgct agcatcatct tcaatgggtg tgtcaagagc 540
actcagtgtc cctgccatcc ctgtccatct ccacatgaaa ggagagggtg gcactccagc 600
ctgggcgact gagcaagact ccatctcaaa aaaaaaaaaa aaaatagaaa ggagagggtta 660
ggaaggagat gaagcctgaa agcactggga ggacacccca gcatagggga acacagagac 720
acgtgaagcc agggagaaaa ccagtagtac ctgcccggcg gccgntcgaa agggcgaatt 780
ccagcacact ggcggggcgt tactagtgga tccct 815

<210> 119
<211> 811
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (811)
<223> n = A,T,C or G

<400> 119
gggcctctnn agctgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60
cgtggctcgc gccgagggtac tctatttttt gcttgatgta ttgatgggtc tttcattatc 120

tgtgattgac	attctatgag	taggtgcttt	tgctttgctt	ataagtcggt	attatgaagg	180
aggaatggtg	aataagaagg	taatttagaa	aagcctatat	taaatatacc	atgaacattg	240
aatatagcaa	gatcttattc	tctagttggt	atcttagttg	ataaattctg	tatgtgttat	300
gtgtttgtgt	atacatatgt	acttaatctg	atcggtatct	aaaagaagga	aaggatggtc	360
aggaaacatt	tatcataaat	gtagccaagg	atatcaatta	gggtagacaa	gaataggaca	420
aaaataggcc	agagctcctg	aggaggtgat	atgggtccct	tgatttgag	aaaatgacag	480
cctatccaag	tggcccgagt	tatgcctccc	agtagcagtg	ggcatgtaaa	ctgcagcgac	540
cttattttta	aaacccaaaa	cctagtatgt	ggacaaagaa	catgacaata	tttggtagct	600
gcccgggcgg	cgcctcgaaa	gggcgaattc	cagcacactg	gcggccggtta	ctagtggatc	660
cgagctcggt	ccaagcttgg	cgtaatcatg	gtcatagctg	gttcctgtgt	gaaattggta	720
tcccgtcac	aattnccaca	cacatacgaa	cccgaagca	ttaaagtgt	aaagcctggg	780
gtgcctaata	aagtgaagta	ctcacattaa	a			811

<210> 120

<211> 466

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(466)

<223> n = A,T,C or G

<400> 120

anttgacctg	attacgccaa	gcttggtacc	gagctcggat	ccactagtaa	cgggccgccag	60
tgtgctggaa	ttcgcccttt	cgagcggccg	cccgggcagg	tacccacggt	ttgctccaca	120
ctccttgacc	acaggggctc	ggacacaaa	ccctgtcacc	aggagagtca	gtcagcacta	180
cttgggaggg	ctaaagggaa	atgttgaaat	aaaattccaa	agtttgaggt	aaaaaaattc	240
aagtgttgat	tttatattct	ttccctttct	gacacagcct	aaagcgtagg	gggaacatgt	300
gtttatctgt	gggagataaa	caagatggag	tcccaaagac	tttaacaaaa	tattttttta	360
aaaatccact	agaatagaaa	atacattatt	tagatatact	ttatgctgag	agtgagtata	420
tatgcttgct	ctattttaac	ttgtgagaaa	aagtgggtatc	ccttng		466

<210> 121

<211> 812

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(812)

<223> n = A,T,C or G

<400> 121

ttgggcccnt	nnagcatgct	cgagcggccg	ccagtgtgat	ggatatctgc	agaattcgcc	60
cttagcgtgg	tcgcggccga	ggtacaaactc	tccagggcac	aatacgttta	cagctgcctt	120
tccttcacat	actttttctaa	ttcagaacta	ctcacaattc	taagcaaatt	cccattcacg	180
aagtctgtcc	ataatgcgac	cttctctttt	tttaacatat	acatcttaaa	aaacaaatat	240
ataaaaaatt	cttatttttg	tggaaatgctt	tcaatttttc	acattttaca	tgatcatcac	300
atttattttct	tatattgaaa	ggcatgggtt	ctgttgacat	gtcgtgcaaa	gccaaaaaaa	360
aaaaaaaaaa	aaagggtctg	attgcttttc	aattgggtcta	acacttttcc	ttgtctaggc	420
tttggatttt	aaagttcatg	acagccccac	caccagtaga	aaccccaagg	cttgcatttc	480
ctggtaatcg	actggaaacg	tcccctgttg	gccatgctaa	gattccttca	acaggggtcat	540
cctgcattta	ttctccttct	gccccapccc	cacaatgaaa	caagatagcc	cccatatttc	600
taaatgtatc	aagggatacc	actttttctc	acaagtttaa	ataggacaag	catatatact	660
cactctcagc	ataaagtata	tctaaataat	gtatttttcta	ttctagnnga	tttttaaaaa	720
aatatttttg	taaagtcttt	ggggactcca	tcttggttat	cttccacaga	taaaccatgt	780
tccccctacg	ctttaggctg	tggtcagaaa	gg			812

<210> 122

<211> 467

<212> DNA

<213> Homo Sapien

<400> 122

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcgcccgagg	taccatgctg	acttcttggg	120
atcttttaag	gcctaatttt	cccttccttg	agattactgt	agtgtgttcc	agctaatttc	180
tatttgga	cgagttggaa	cagctgaaaa	ctagggtatta	ttgaaggcaa	agcagcctca	240
cgtcagtttt	ttatcagctc	atctgggaag	tttttttttt	tttttttttt	ttttaattaa	300
ttagaaagta	ggctgggcac	ggtggctcat	gcctataatc	ccagcacttg	gggaggccga	360
ggatctcctc	tctggtggat	cacttgaggg	caggagttaa	gagaccatcc	tggccaacat	420
gatgaaaccc	tgtctctact	aaaaatacaa	aaagtagctg	ggcgtgg		467

<210> 123

<211> 864

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (864)

<223> n = A,T,C or G

<400> 123

gggcctctng	agcatgctcg	agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcggcc	gcccgggcag	gtactttttt	tttttttttt	tcttttttta	catctgattt	120
taatgcttcg	ttaacttcaa	aaggaactgg	tagagttcag	aaggtgagct	gttggttttc	180
taaacctctt	cccaggaagg	ggacattgac	acttgaattt	ttgtcacctt	tttcctcatt	240
agaaggaaag	tagaaagcct	tactgtaggg	tttttaaaaa	aaaaatccat	ctcaccccat	300
attggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	gtagaattta	360
gatgggttca	tatatgtgag	aaaaacctga	atataggaca	ggggtcctac	tttttcccc	420
acctctgtcg	cccaggctag	agtatagtgg	tgtgatcttg	gccactgca	acctctgctt	480
cctaggttca	agtgattctc	ctgcctcagc	ctcccaagta	gctgggattg	taagagtatg	540
ccaccacgcc	cagctacttt	ttgnattttt	agtagagaca	gggtttcctc	atgttggccca	600
ggatggntct	ttaactcctg	ccctcaagtg	gatccaccag	agaaggagat	cccttggnct	660
tccccaaagt	cctggggatt	attaggcatt	gaagcccacc	cgtggcccca	agccctacnt	720
tttcttaaat	ttaattttaa	aaaaaanaaa	nnnnnnnnnn	nnaaaaaaaa	ccttttcccc	780
aaattgganc	ctgggtttta	aaaaacctgg	acccttnaan	gggcntggnt	tttgccctt	840
tnaaataaat	tnccctaaag	gnnt				864

<210> 124

<211> 467

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (467)

<223> n = A,T,C or G

<400> 124

antatgacct	gattacgcca	agcttggtac	cgagctcggg	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	tcgagcggcc	gcccgggcag	gtacatgcac	acacacacac	120
acacacacac	acgtgtctac	tgggtccctt	ttggattttt	tagttcaatc	agaaatcacc	180
aaacagatca	ataaagaggc	aatgttaa	gaccgggaaa	ttggtaatgt	gacatcacaa	240
cactgccttt	aaggtgccat	atctaaatcc	aggtagcact	gctgctagca	gaatctgttg	300
ttttaggaga	caagggtggg	ctgggtatgc	tggctcgtgc	ctataattcc	agcactttga	360
gagggcaagg	caggagaacc	acattaggct	aggagtttan	gaccagcctg	ggcaacatag	420
tgagatccca	tctctacaaa	aataaaaaaa	ttagctttcc	agctgct		467

<210> 125

<211> 833

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(833)

<223> n = A,T,C or G

<400> 125

gnnnnnnnnnn	ngnnttnnnn	ntttaataga	tgagcgtacg	gngcctgtaa	agcatgctcg	60
agcgcccgcc	atgtgatgga	tatctgcaga	attcgccctt	agcgtggctg	cgcccgaggt	120
acctgatata	gtttaacttt	cctctttatc	tttcttagag	atacttcaca	tgtgggacag	180
attatatttt	ggaaagatgt	ccacaacaat	attgcccatc	ccacattgct	catcttacaa	240
tgtgatctca	agactcctcc	cactgagtgg	gtgagaaggg	acttatacca	ctttcatttg	300
aatctaggca	gatctgtgtg	acagccttga	ccaatagagt	atggttaaaag	tgatgcccc	360
aggcatgggt	gcccatacct	ggaatcctgg	tttttcgggg	aggcccaggt	gggggtagag	420
gtgaggggga	tgattgtttg	aacacacag	tttgagacta	ccctgagcaa	cacaatgaga	480
ccctattttt	ttttaatgat	ttctgaagca	gaatcacaaa	tagccgtgcg	tttttttctt	540
gcgcttttag	gatacttact	tttaaaaccc	agtcaccata	ttgttaggaa	gcccacacag	600
cacacataga	gagacatacg	gagaagccaa	ccatagaggt	tcctgttgac	agctcantcg	660
aggtcttaac	caacagtcac	acttagctgc	cagccatatt	agtgaagggc	ttncagatga	720
ttctaacgcc	cagcagttgg	gtccccccag	cctgtaagcc	ttcccagctg	aggcctnaca	780
atgatggagc	anagaaaagt	gtccctgtcc	aaattctgac	ccatgataaa	atg	833

<210> 126

<211> 788

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(788)

<223> n = A,T,C or G

<400> 126

nnnnnnntnn	nnacanttga	ctgataccca	acttggtacc	gactcggatc	cactagtaac	60
ggccgccagt	gtgctggaat	tcgcccttag	cgtggctcgc	gccgagggtac	gcggggggatc	120
agagagaagc	gaggttctcg	ttctgagggg	caggctcgag	atcggtgaa	gagagcgggc	180
ccaggctctg	tgaggaggca	agggaggtga	gaaccttgct	ctcagagggg	gactcaagtc	240
aacacaggga	acccctcttt	tctacagaca	cagtgggtcg	caggatctga	caagagtcca	300
ggttctcagg	ggacagggag	agcaagaggt	caagagctgt	gggacaccac	agagcagcac	360
tgaaggagaa	gacctgcctg	tgggtcccca	tcgcccgaag	cctgcccaca	ctcccacctg	420
ctaccctgat	cagagtcac	atgcctcgag	ctccaaagcg	tcagcgtgct	atgcctgaag	480
aagatcttca	atcccaaagt	gagacacagg	gcctcgaggg	tgcacaggct	cccctggctg	540
tggaggagga	tgcttcatca	tccactttca	ccagctcctc	ttttccatcc	tcttttcctt	600
ctccttctnt	ttctnctnct	nctnctgcat	ctntaatacc	aagcacccca	naggagggtt	660
ctgctgatga	tgagacaccc	aaatncttcc	anagtgcctna	anatagcctg	ntncttcccc	720
cttngnctnt	gctttccctt	ncnttanatt	naatnctgat	taaggggttc	cannanncca	780
aaaggaat						788

<210> 127

<211> 766

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(766)

<223> n = A,T,C or G

<400> 127

gggcctctna	agcatgctcg	acggccgcca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tactccaggt	agttttcctg	cacccaatct	tgggtgagca	120

gcttcctggg	ctccccataa	atgagggtgct	ccatcccatc	atacagcccc	atcatattca	180
gtgcttccca	gatgacctcc	tcaggggtgc	agtagccctc	tatgaagatt	atgcttagga	240
taagtatgag	aatgccagtc	ttgggcatgc	tctggacatc	actcagcatc	ccatcatagg	300
tgaggcccgag	ggaggtgaca	aggacaaagg	agtggccagt	gggatccact	tcctttacat	360
caatgccaaa	gaccagcagc	atgcactcgg	aggcttcact	aaacaacaaa	gggaagtggg	420
cttcataatt	ttttatgaca	ctctccagta	tttctgcctt	tgtgatcggc	tccttcattt	480
gataacttgaa	gagcagaaac	tgcaccaa	cagtcacctt	ttcatctatc	tcacttctgg	540
gtaaagactc	actgtctggc	aggacctgta	gggtgcttgg	actctcctcc	ttttggctgc	600
tgagagccctc	atcagattga	tctaattgaa	gggaagcaac	gaccganggg	gaggagcagg	660
ctatctgagc	actctgggga	ggatttggtg	tctcatcatc	agcagaaacc	tnctctgggg	720
tgcttgggta	ttagangatg	gcaggaagaa	gaagangaag	aggaag		766

<210> 128

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(779)

<223> n = A,T,C or G

<400> 128

gnnnnnntnnn	nacactantt	tnngaccogn	canctggtag	cgactcggac	cactagtaac	60
ggccgccaggt	gtgctggaat	tcgccctttc	gagcggcccg	cpcgggcagg	tactcctcat	120
cctgcgtttg	gtctccaggt	gtcgcctttc	tgccgtgttc	ctaataat	gattcctgtc	180
ttgaaaaaag	cacctgctgc	acagtaagcc	cagggatgtg	gcagctgcag	cgggcttggc	240
tttgtgagga	accgggtgtg	tccacgttgg	gggaacatca	tacttgatac	acacgttttt	300
atttgcacaa	agaaaatgct	atttttggag	ccagaat	catgtctgat	ttatggtgat	360
tttcttaaga	accagaactg	ctggcagaaa	gggggcaccc	acacgcttag	atagccgatg	420
tcttattaga	gggcagtttg	tggttcctga	tttggaatt	aatattctcc	aaacattcca	480
gtccaatgaa	agttttatcc	gctttcccat	gtaaaaattc	ttcccatgag	agtgacttga	540
tcctcacaat	ccggttgaag	tcgtgtgtga	gtcctacagt	attaggttca	gcattgccgt	600
ctncaagtgc	tctttgtagg	gaaacagttt	ctggtcatga	caagcttcca	cttccatctg	660
atcctggcct	ggcctggaaa	cagagcacat	gtgtttgagg	atggcngtgt	ttggggacag	720
gacatgancg	tattgtgtgg	ggctgctagg	acangcgtgg	tgtggtgggg	gantgtccn	779

<210> 129

<211> 774

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(774)

<223> n = A,T,C or G

<400> 129

ttnnnantgg	gcccntngag	catgctcgac	ggccgccatg	tgatggatat	ctgcagaatt	60
cgcccttagc	gtggtcgcg	cagaggtacc	tgggtgggac	tgggaaactg	tgaacaagt	120
agactgactt	ggacactccc	ccaccacacc	acgcctgtcc	tagcagcccc	acacaatag	180
ctcatgtcct	gtccccaaac	accgccatcc	tcaaacacat	gtgctctgtt	tccaggccag	240
gccaggatca	gatgggaagt	ggaagcttgt	catgaccaga	aactgtttcc	ctacaaagag	300
cacttggaga	cggcaatgct	gaaccttaata	ctgtaggact	cacacacgac	ttcaacggga	360
ttgtgaggat	caagtcactc	tcattgggaag	aattttttaca	tgggaaagcg	gataaaactt	420
tcattggact	ggaatgtttg	gagaatatta	atttccaaat	caggaaccac	aaactgcctt	480
ctaataagac	atcggctatc	taagcgtgtg	ggtgccccct	ttctgccagc	agttctgggt	540
cttaagaaaa	tcaccataaa	tcagacatga	aaattctggc	tccaaaaata	gcattttctt	600
tgtgcaaata	aaaacgtgtg	tatcaagtat	gatgttcccc	caacgtggac	acaccccggt	660
tcctncaaaa	gccaagcccg	ctgcagctgc	cacattcctg	ggcttactgt	gcacangtgc	720
tttttttaag	acaggatcaa	atnttaggac	ccngnanaan	gcaacacctg	gaga	774

<210> 130
 <211> 803
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (803)
 <223> n = A,T,C or G

<400> 130
 ggnnnnntttnn anacgnatcn gacctganta cgccaacttg gtaccgagct cggatccact 60
 agtaacggcc cgccagtgtg ctggaattcg cccttagcgt ggtcgcggcc cgaggtacct 120
 tggaagttat gtcattaata taggctgggt cgtcaaataa agcaaacct tgcaatatca 180
 gctagattta cactccggga cgttgcccaa aggtaggagaa aaagcagagg gaaatatttc 240
 agtcatcatt tccaaagtca ttatcaaaat ctgtgaggaa gtttaattctt ccaaagagtc 300
 aatgtcagac atcaggcctc tgttgccctgc ttctctcgag gcactagatt aggagtcttc 360
 aataagagac ttaacatgag gtatatggaa gatgaggcac cgagataagt tcatcattag 420
 gtgtgagcac tgctaccctc tgctggcaag ttctccttaa gggcctgaag cacaggtgtc 480
 caaagaaaag cgttaagtcc atcttaatag aatctatgtg gtatatgatg tggtcagccc 540
 ccggtctgtg atcagcaaga acctacagca cagattatgc cctgccact tcaatgaata 600
 cctactctcc tncattctcc atcacttttt ttgctatcaa gactccggac cttgcccatg 660
 gagaagttta gagaggaact cttgtggaga gctgggttat tttctgccct gtgcgacgag 720
 tttcagcttg gccaaagaaa ggagtcgaag ttattaaaaa gcatcacaat ggtagatctt 780
 ccaggcttgg ntttttttgt ttt 803

<210> 131
 <211> 818
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (818)
 <223> n = A,T,C or G

<400> 131
 antgggcctc tnnagcatgc tgcagggccg ccatgtgatg gatatctgca gaattcggcc 60
 ttngcccgtc ttccagncgg gaaacctgtc ntgccagntg cattaatgaa tcngccaacg 120
 cgcggmgaga ggcggmttgc gtattggcg cttctcgtc tctcgtca ctgactcgtc 180
 gcgctcggcc gttcngctgc ggcgagcgg atcagctcac tcaaaggcgg taatacngtt 240
 atccacagat caggggatan cggcaggaaa gaacatgtga ncaaaaggcc agcaaaaggc 300
 caggaaccga aaaaaggccg ctttgttggc gttnnaccat aggtcnncc ccttgacna 360
 gcttcacaaa aatctacgtc cagntcccag gtgcnaaatc ccganaggac tntaangatt 420
 cnnngnnttt cccctgaan nctnccant gcgctctcct gtnccaacct tgccgtttac 480
 cggataacctg nccgcctnna tnccttcgng aagentggct ttnaatngg ctacttttt 540
 gggnatctaa aancggnta ggcngnncgt tnnaaantng nntttttgcn caaacccct 600
 gtttaaaactn acccatgngc attatcccg aaacttttgg tnttngaate caaccnggna 660
 aanacacnan ttaatnngcc nttggcntga aaccacttg ggtnaaccat ggattttggc 720
 ncnaccnagg gtnnttttnn nggcnngtnc ntaccggag ttctttnaaa acnggggtggg 780
 cncttanacc tatcnggnnt tcccctttan aaaaaaat 818

<210> 132
 <211> 777
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (777)
 <223> n = A,T,C or G

<400> 132

acnntatgac	ntgantaccc	aacttggtac	cgactcggac	cactagtaac	ggccgccagt	60
gtgctggaat	tcgcccttcg	gcccccccg	gcaggtagct	ggaaaataac	ttctttcttt	120
tcctctagat	tttcgaagaa	gcaaataaat	caagaataga	aacctatata	taggaggttg	180
ggcctcctgc	aaagaatgaa	gcactttttg	ttaaatacag	gagaggctac	ttggctgcac	240
taatattgtc	tttttggaat	cttatagagt	gtcaccaagt	tgaacttttg	aatggcttga	300
atcatccctg	gagcatctgt	gccgggcagt	caggagttag	tgcaccgect	cccaccagc	360
cccatggggc	ctcacaccct	cttcattcct	ttccccatga	ggcaggcaaa	cacggtcatg	420
accattttgg	ggttcacttc	aaccaggtct	tctggcaggg	catacactct	tgctccaatt	480
tttcgggcca	tagagatggc	atattttgca	ttgttgagtt	tctcatcatc	attcagattt	540
tctgtcttca	gaaggtcata	gttaatggaa	cctggttgga	tggcatcgat	gangtccaga	600
acaggcagac	ttgtacctcg	gccgcgacca	cgctaagggc	gaattctgca	gatatncatc	660
acactggcgg	gccgntcgag	catgcatcta	ganggcccaa	ttcgccctat	agtgaagctg	720
attacaattc	actgggccgt	cgttttacaa	cgctcgtgact	gggaaaaccc	tgcgttn	777

<210> 133

<211> 775

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (775)

<223> n = A,T,C or G

<400> 133

ntgggcctct	nnagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgcctt	60
tagcgtggtc	gcggccgagg	tacaagtctg	cctgttctgg	acctcatcga	tgccatccaa	120
ccaggttcca	ttaaactatga	ccttctgaag	acagaaaatc	tgaatgatga	tgagaaaactc	180
aacaatgcaa	aatatgccat	ctctatggcc	cgaaaaattg	gagcaagagt	gtatgccctg	240
ccagaagacc	tggttgaagt	gaaccccaaa	atgggtcatga	ccgtgtttgc	ctgcctcatg	300
gggaaaggaa	tgaagagggg	gtgaggccca	atggggctgg	gtgggaggcg	gtgcactcac	360
tcctgactgc	ccggcacaga	tgctccaggg	atgattcaag	ccattccaaa	gttcaacttg	420
gtgacactct	ataagattcc	aaaaagcaca	tattagtga	gccaagtagc	ctctcctgta	480
tttaacaaaa	agtgttcat	tctttgcagg	aggcccaacc	tnctatatat	aggtttctat	540
tcttgattta	tttgcttctt	cgaaaatcta	gaggaaaaga	aagaagttat	tttccaggta	600
cctgcccggg	cggccgaang	gcgaattcca	gcacactggc	ggccgttact	agtggatccg	660
agctcggtag	caagcttggc	gtaatcatgg	tcatagctgt	ttcctgtgtg	aaattgntat	720
ccggtcacia	ttccacaca	tacgaacccg	gaagcataaa	gtgtaaagcc	tgggg	775

<210> 134

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (772)

<223> n = A,T,C or G

<400> 134

acnnttgacc	tgataccag	ctgggtccgac	tcggacccta	gtaacggccg	ccatgtgctg	60
gaattcgccc	ttgagcggcc	gccggggcag	gtctataagt	ctttaaattg	ggctcgtgtt	120
ttagcaggta	agactaattt	atctcttctc	cagtgaattg	atgctgggtg	gattcgattt	180
cacatcacaa	cttatattga	tagggatttc	cttcccaaga	gtaataaatt	gtttgggttg	240
atataaactt	gggggcatat	tcaatatcaa	ggtacttttt	tttttttttt	aagttttagt	300
tcagaataac	attaattttg	agagattgag	gtaaagaacc	ttactaatg	ctaaggagtt	360
tattttgatt	aacataggtt	attctgacca	ccacctcttc	cttccttaat	ctccttagaa	420
tctgacagtc	tcaaagctgt	cacacaaatt	agactaattt	tgacactttg	aaatgaaaac	480
ttcaaggaag	aagtagccac	ggacagttat	gtttataatc	agtaggtggc	actctttcct	540
caggtagccc	cccattttca	catgatgtgt	ttgaaggtta	aatgccccaa	aagtgtgag	600
tcagctataa	aactaagtc	ctgaattcca	tggccctttt	aaatatgtaa	tcattcaaga	660

ttgaaaaaaa aaattaagca ttttttgntt gnttgcttgg ttggttttga gacngagttt 720
cactcttgnt ggccaggctg gagtgaatg gcgccatctn actcactgna ag 772

<210> 135

<211> 784

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (784)

<223> n = A,T,C or G

<400> 135

ntgggectct	nnagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggtc	gcggcccgag	gtacttcttt	tgaataattc	agtattttta	aaatgcaagc	120
caggcacagt	ggctcacgcc	tgtaatccag	cactttggaa	ggccgagggtg	gggggatcac	180
gaggtcagga	gttcaagacc	agcctggcca	acatggtgaa	acctcatctc	tactaaaaat	240
acaaaaacta	gctgggcatg	gtggcgggca	cctgtaaccc	cagctacttg	gagggctgaa	300
ggagaattgc	ttgaatccgg	gaggcagagg	ttgcagtgg	ctgagatggc	gccattgcac	360
tccagcctgg	ccaacaagag	tgaaactccg	tctcaaaaac	aaacaagcaa	acaaacaaaa	420
aatgcttaat	tttttttttc	aatcttgaat	gattacatat	ttaaaagggc	catggaattc	480
agggacttag	ttttatagct	gactcagcac	ttttggtggc	atttaacctt	caaacacatc	540
atgtgaaaat	ggggggctac	ctgaggaaag	agtgccacct	actgattata	aacataactg	600
tccgtggcta	cttcttcctt	gaagttttca	tttcaaagtg	tcaaaattag	tctaatttgt	660
gtgacagctt	tgagactgtc	agattctaag	gagattaaag	gaanggaaga	gggtggtggc	720
agaataacct	atgttaatca	aaaataaact	tccttagcat	taagttaang	gtctttacct	780
caan						784

<210> 136

<211> 768

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (768)

<223> n = A,T,C or G

<400> 136

acnttgantg	nacccacttg	tccgactcgg	atccctagta	acggcgcagt	gtgctggaat	60
tcgccctttg	agcggccgcc	gggcagggtac	tttttttttt	cttttttttac	atctgatttt	120
aatgcttcgt	taacttcaaa	aggggaactgg	gtagagttca	gaagggtgagc	tgttggtttt	180
ctaaacctct	tcccaggaag	gagacattga	cacttgaatt	tttgccacct	ttttcctcat	240
tagaaggaaa	gtagaaagcc	ttactgtagg	atttttaaaa	aaaaatccat	ctcaccat	300
attggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	gtagaattta	360
gatgggttca	tatatgtgag	aaaaacctga	atataggaca	gggggtctac	ttttttcccc	420
acctctgccg	cccaggctag	agtatagtgg	tgtgatcttg	gcccactgca	acctctgctt	480
cctaggttca	agtgattctc	ctgcctcagc	ctcccaagta	gctgggattg	taagagtatg	540
ccaccacgcc	cagctacttt	ttgtattttt	agtagagaca	gggtttcatc	atgttggtcca	600
ggatgggtctc	ttaactcctg	ccctcaagtg	atccaccaga	gaggagatcc	tcggccttcc	660
caagtgctgg	gattataggc	atgagccacc	gtaccacagc	tactttctaa	ttaattaaaa	720
aaaaannnnn	nnnnaaaaaa	acttnccaaa	tgactgataa	aaaactgc		768

<210> 137

<211> 777

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (777)

<223> n = A,T,C or G

<400> 137

ttggggcctct	ngagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggtc	gcgcccgagg	taccatgctg	acttcttggg	atcttttaag	gcctaatttt	120
cccttccttg	agattactgt	agtgtgttcc	agctaatttc	tatttggaag	cgagttggaa	180
cagctgaaaa	ctaggtatta	ttgaaggcaa	agtagcctca	cgtagtctt	ttatcagctc	240
atttggaag	tttttttttt	tttttttttt	ttttttaatt	aattagaaag	taggctgggt	300
acgggtggctc	atgcctataa	tcccagcact	tggggaggcc	gaggatctcc	tctctgggtg	360
atcacttgag	ggcaggagtt	aagagaccat	cctggccaac	atgatgaaac	cctgtctcta	420
ctaaaaatac	aaaaagtagc	tgggcgtggt	ggcatactct	tacaatccca	gctacttggg	480
aggctgaggc	aggagaatca	cttgaacctt	ggaagcagag	gttgtagtgg	gccaagatca	540
caccactata	ctctagcctg	ggcggcagag	gtggggaaaa	aagtaggacc	cctgtcctat	600
attcaggttt	ttctcacata	tatgaaccca	tctaaattct	acgttgtaa	aggtagctta	660
ngttaattag	tctatactta	tttaagacca	atatgggggtg	agatggattt	ttttttaaaa	720
atcctacant	aaggctttct	actttccttc	taatgaggaa	aaaagtggca	aaaattt	777

<210> 138

<211> 950

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (950)

<223> n = A,T,C or G

<400> 138

nnnnnnnnnn	nnnnnnnnnn	ntnnnnnnnn	nnnnnaaanc	cnnnnnttna	nnngnnaaac	60
cccattggna	aanntaaccn	cccccaaaa	gccctttngg	ggtttaaccc	ccgaaagcct	120
tccgggggna	atccccaaat	ttaagttaaa	acnggggccc	cgggcccaag	ttgggtggcc	180
tttgggggaa	aatttcgcgc	ccctttccga	agccgggccc	ggccccgggg	gccaagggta	240
ccatgggaat	ggttaccttt	tggcaagaac	tggtaaaccc	ctggaaattt	tggatatttt	300
gctttggaca	ttggccctaa	attaattaag	tttcaagggtg	gtcaggcttt	acccactttt	360
tggcttgcca	acatgcagaa	gagacagtgc	ccttttttagt	gtatcatatc	aggaatcatc	420
tcacattggg	ttgtgccatt	actggtgcag	tgactttcag	ccaattgggt	aagggtggagt	480
tggccatatg	tctccactgc	aaaattgctg	attttccttt	tgtaatattt	aagtgtgtgt	540
gaagattctt	tgagatgagg	tatatatctc	actcttcctc	aaactataag	tttttttaag	600
taaaagaaaa	tttattatga	aactaaagga	ataaaagaat	gaccactcca	taggcagaga	660
aacgtcactt	taagggtttt	acgtcaattg	atttttgtcc	aaatcaataa	ttactgcaat	720
gattgaaaaa	tgattattac	taagtttgtt	ttcattgtct	caagggtctg	tgaactctgg	780
atccaggctg	tgtcaacagg	gtagtgtggt	gcctcctgta	cctcgccgcg	gaccacgcta	840
agggcggaat	ctgcagatat	ccatcacact	ggcgccgctt	cgagcatgca	tctagagggc	900
ccaattcgcc	tatagttagt	cgtattacaa	ttcactggcc	cgcgttttag		950

<210> 139

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (779)

<223> n = A,T,C or G

<400> 139

ttggggccnt	agagctgctc	gagcggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggtc	gcgcccgagg	tacaggaggc	accacactac	cctgttgaca	cagcctggat	120
ccagagttca	gcagaccttg	agacaatgaa	aacaaactta	gtaataatca	tttttcaatc	180
attgcagtaa	ttattgattt	ggacaaaaat	caattgacgt	caaaacctta	aagtgcagtt	240
tctctgccta	tggagtggtc	attcttttat	tccttttagt	tcataataaa	ttttctttta	300
cttaaaaaaa	cttatagttt	gatgaagagt	gagatatata	cctcatctca	aagaatcttc	360

acacacactt	attaattaca	aaaggaaaat	cagcaatttt	gcagtggaga	catatggcca	420
actccacctt	acccaagtgg	ctgaaagtca	ctgcaccagt	aatggcaca	accaatgtga	480
gatgattcct	gatatgatac	actaaaaagg	gcactgtctc	ttctgcatgt	tgacagacaaa	540
aagtgggtaa	gctgacactg	aaactaataa	ttaggcaatg	tcaagcaa	acaaattcag	600
gttgacagtc	tgcaaagtaa	catccatgta	cctgcccggg	cngnccgctc	gaagggcgaa	660
ttccagcaca	ctggcgcccg	ttactagtgg	atccgagctc	ggtaccaagc	ttggcgta	720
catgggcata	gctggttctt	gtgtgaaatt	ggtatncgct	cacaattnc	acaacatag	779

<210> 140

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(779)

<223> n = A,T,C or G

<400> 140

gcccntagag	catgctcgac	ggccgccaagt	gtgatggata	tctgcagaat	tcgcccttag	60
cgtgggtcg	gccgaggtag	caggtgggct	gacgcacatc	ccctaaacat	tctggatctc	120
ttactcatcg	tgaaaggcag	acgctctaag	tctaaagtct	agggtaggag	tttccattct	180
ttggaaaacc	aaagatgggt	actcttctta	atgaaactga	gaagaaggta	tctacagaaa	240
acactgaatt	taaacaaatt	atgacctgt	ttgttgaagc	catcaaggac	ccaagatata	300
tcaaagaaca	acatctctgt	attggcctac	aggttcagag	tgttttgagg	tctgtttaag	360
cactaatagg	attttaggcc	agcatccagt	cagaagagat	agttcacaga	ctcagagttg	420
gaaacagatt	aaaaaaaaaa	agatgtcaac	atagaaaatg	atgatagagt	ttagttaaaa	480
aaattcacac	ataaaattac	agttaaaaa	attcacacat	aaaatagagt	gtttgcatag	540
caagacatta	ttgcccttca	gcctggcaga	aaaacataaa	ctcagggtga	tattttataa	600
taaacattgt	attgaatgct	aagaatgata	cactgttgaa	catctcctga	atggtttgcc	660
ttcttgtaaa	tcataccaat	tgtttagaca	attgaaattc	caagctcttt	ctcttctccc	720
atataaaaac	caacagaaaac	anggaggctg	ttagtagcaa	gctcctcatg	ggaaanggt	779

<210> 141

<211> 986

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(986)

<223> n = A,T,C or G

<400> 141

aanccnnnnn	ntttatttgg	gnaaacccaa	ttgggnaaaa	ttnaaccn	cccccnaaa	60
ngcccttttn	gggggttnaa	ccccccgaa	aaccctttcc	ggggggaaat	tccccaacct	120
ttaaagnttt	aaaaaccgg	gggcccggg	cccccaaagt	ttgggttggc	cnttggggga	180
aaaatttttt	ccgggcccc	cnttttaaag	cccggttggg	gtttccggcc	ngggggcccc	240
gggaaagggt	tnaccctttt	ttttttaact	tttttnntt	tccttttttn	nttccttttt	300
tttctttttt	tttttctttg	gtntnnnttt	ttttttcaat	tttttggttt	ttgggtttttg	360
gttatggttt	ttttagaaca	ggggtccac	tctgtcacc	aggctggagt	gcagtgggtgc	420
aatcacaggt	cactgaaacc	tcccacctag	ctgggactag	agggtgcaggc	caccacacca	480
gctaatttat	gtaatttttg	tagagacgag	tttcaccacg	ttacctaggc	ttgtcttgaa	540
cacctgggct	caagcaatct	tccagcccca	gcctcccaaa	gtgctgggat	tacaggtata	600
aaccacaatg	cccccgtttt	tactctttac	tgcatecttc	ccatcagtat	taattcctca	660
gaaatttagt	acccctgtgc	ttcattcagt	atcagtaacc	ctgcaatgat	ttttacaaat	720
atctttttct	agtgggtttt	ttacttagag	gaaagaacct	tgtaatagct	cttaatgttt	780
atatataaga	gaagacagaa	tggaaaatgt	tttttgaagt	caaatattgc	atgatgtaaa	840
gaaaaaactt	taaaacttaa	tgagtanggt	tgtcctgaat	tacactggta	actctctact	900
tctttattaa	agaagttata	gtaagatgcc	tttggntacc	tgatttcagt	gtacctgccc	960
gggcccggcg	ntcaaaaggg	cgaant				986

<210> 142
<211> 780
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

<400> 142
gggcccgtan agcatgctcg agcggccgcc atgtgatgga tatctgcaga attcgccctt 60
tcgagcggcc gcccgggcag gtacactgaa atcaggtaac aaaggcatct tactataact 120
tctttaataa agaagtagag agttaccagt gtaattcagg acaacctact catttaagtt 180
taaagttttt tctttacatc atgcaatatt tgacttcaaa aaacattttc cattctgtct 240
tctcttatat ataaacatta agagctatta caaagttctt tcctctaagt aaaaaaccca 300
ctagaaaaag atatttgtaa aaatcattgc agggttactg atactgaatg aagcacaggg 360
gtactaaatt tctgaggaat taatactgat gggaaggatg cagtaaagag taaaaacggg 420
ggcattgtgg tttataacctg taatcccagc actttgggag gctggggctg gaagattgct 480
tgagcccagg tgttcaagac aagcctaggt aacgtggtga aactcgtctc tacaaaaatt 540
cataaattag ctgggtgtgtt ggcctgcacc tctagtccca gctaggtggg aggtttcagt 600
gacctgtgat tgcaccactg cactecagcc tgggtgacag agtgggaccc tgtctaaaaa 660
aaacataaca naacanaacn naatgaaaaa aaaaaaaga aaaaagaata gaaaaagaaa 720
aaagtnaaaa gtnccctcggc cgcgaccacg ctaaggggcga attccagcac actgcggccn 780

<210> 143
<211> 794
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(794)
<223> n = A,T,C or G

<400> 143
nnnnnnnnnn nnnacnnttg actgataccc aacttggtac cgactcggac cactagtaac 60
ggccgccagt gtgctggaat tcgccctttc gagcggccgc ccgggcaggt acagaaagaa 120
gagccaggat attctttgtt ttcttaagcg tagctgtgag caacattatc tctcctactg 180
gcttctttga ggtatgagag tcatcattac atctgtgtgc tttgtcaagt tatatgtcac 240
aattccacct gtgggtagag aacaagcaca agagtcacat caactgtgtg ctgggccagg 300
gttatgtcac aatcttccct gagagcatgc accaggcaga agagtcacat cacagggttc 360
tcaaccagag atgttacaat cctctcctga aagcaggaca caggaaaaag agtaagatca 420
cctgcagtct gggctcagat atatgtcaca agactcactg tgggcaaagt ccagaaggac 480
agacagaaca gctggttgct tgaccagca atatgtcaca atcttctcta tgggcagaat 540
gcaggcagaa gttagagggt tcatcttcca ggtgatggat taaaaaata catcccaagg 600
ctctctgtgg gaaagggtc angcagaaac tttccaaccc ctangtgttt gcttcagtga 660
tatgtcacia ttaacaaaaa tatgcaggtt tcaagcaagt gagtnaagtc atatcaccta 720
nggtgcttgg tccanaaatc tgncaaatc tttttttttt ttttggcatg cccagcngaa 780
ttgaaaagtc ncan 794

<210> 144
<211> 782
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(782)
<223> n = A,T,C or G

<400> 144

cnannngggcc	cntagagcat	gctcgacggc	cgccagtgtg	atggatatct	gcagaattcg	60
cccttagcgt	ggcgcgggcc	gaggtacaat	cttgggtcac	tgcaacctcc	acctcccggg	120
ttcaagcaat	tctcctggct	cagcctcctg	agtgtgagg	ctacaggcat	gcaccaccac	180
tcccaccta	ttttgtat	ttgatagaga	cggggcttct	ccatgttgg	caggctgttc	240
tcaaactcct	gacctcaggt	gatttgactg	tcttagcctc	ccacagtgt	gagcttatag	300
gcaggtgcca	cgacacctgg	ctggaatcat	ttatttcaac	atatctctgg	gtccaacaac	360
atggtgatgc	aactttcctg	catgggccc	cccacagaaa	tactctaata	catcttttca	420
ttcattatct	tggtgatgtg	acttttctat	tctgcttggg	cactgccaaa	aaaaaaaaaa	480
aagattgtga	cagatttctg	gaccaagcac	ctaggtgata	tgactttact	cacttgccctg	540
aaacctgcat	attttggtta	ttgtgacata	tcactgaagc	aaacacctag	gggttggaaa	600
gtttctgcct	gagcccttcc	acagagagcc	ttgggatgta	ttttttta	ccatcacctg	660
ggagatgaaa	ccctctactt	ttgcctgcat	tctgcccata	gagaagattg	tgacatattg	720
ctgggtcaag	caaccagct	ggtctgctgt	ccttntggac	tttgccaca	agtgagttt	780
gn						782

<210> 145

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 145

annnttgacc	tgataccag	cttgggtaccg	agctcggatc	cactagtaac	ggccgccag	60
gtgctggaat	tcgcccttcc	gagcgccgc	ccgggcaggt	acttttttta	cttttttttt	120
cttttttttt	ttggacatct	gttttcactc	ttaggctttt	aaacaatagt	tattgctttt	180
atccctctca	gattctaata	actgagagcg	atggggctat	attgaatctc	tgtatgcact	240
gagaactgag	ctatgaagag	gatcttatta	aactgctgg	ctgactttat	ggattgacac	300
tgttcctttc	ttttattgtg	aaaaaaaaaa	aaaaccctga	aagtcttggg	aacccctaa	360
agtcttttgg	gaatcctcaa	aaagcatggg	aagttaagta	tttagctaca	taaatgttgt	420
aagatcatat	cttatgtata	gaagtaataa	gaccatttgg	aattactgga	ctaattgaat	480
agttaagggt	tctattcggg	acaataaaat	gtattttgaa	agtgtgtgta	actattgatg	540
ctgacagtgt	ttcactccta	tgagtgaccc	aaacatatta	taaatatgtg	gtaaagggaa	600
tgagacctgt	gggggtgagc	agaatgttgg	actttttttt	tnnnnnnnnn	nttttttngc	660
tttctattng	atngataacg	atttcnggat	tnccctttaa	nnccnggang	gtttggaaac	720
tttggaactg	attctggttc	cengaaacag	gttcactggg	nnccggggga	cacttttaan	780

<210> 146

<211> 778

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(778)

<223> n = A,T,C or G

<400> 146

ttgggccc	agagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggte	gcggccgagg	taecatggagg	cctggactgt	aaagagacta	cggaaggggc	120
agcatgtgtg	ttttgtttct	cagattcatt	gtcactcacg	ttgcataaag	tcctcagttg	180
tttttaagta	attgttttac	tatggatata	ttaaacatac	agaataaaaa	aggggaataaa	240
catacaattt	ggcaaacc	ctactgagcc	tttaaaaaata	ttagaagggt	ggtattaaac	300
caggttaactt	acggatttgg	aaaaaaaaaa	aaaagaaag	cattgaatat	ggctggcgcg	360
ttctctgggg	atccttgggc	agacccagtt	tgccccgatt	tctactgta	gttttcaaga	420
ataactgtag	gaggcggtgg	gagtgcagca	tcctgagata	agggagacga	gccagaacag	480
cgcgggcact	gttccagccc	ccctagaaat	gggttgatct	tcagtgtctc	agctcagtgt	540
gtcatgtctc	accacagatg	taaaagccta	ggatcgagg	cttccccagg	gttcgtcagc	600
tgtggcacia	tagggcccg	tgcaataaag	attctattcc	tgtcagacag	tttcgtgagt	660

ttgtggggga acactcaccc tagcttctgn tgnctcttca tgccctgtgtg ttcctaataca 720
acttttttgn gtaacttggt gttttgaaag tgccaccagc acacaatgga acctgtcn 778

<210> 147
<211> 784
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (784)
<223> n = A,T,C or G

<400> 147
acnntatgac ctgattacgc caacttggtg cgcactcgga ccactagtaa cggcccgccag 60
tgtgctggaa ttcgcccttt cgagcggccg cccgggcagg tacttttttt tttttttttt 120
tttttttttg ggattgaatc aacatgcttt aataggaaaa gatgtatggg ctatatatgn 180
atcaatctgg ngaancctcg ntctaataaa ggggtctttt cttttctatg atacacacag 240
ncacgctgat aatatgcnaa tgaacatttt cctttatgnc tctncanata atggttattg 300
gctgaggnaa attaaattcc caccanggnt tgctgncagt attttaacac ccacattagt 360
atatgcntnc agggctcataa ccccctaaaa tccatnatgc aaccttatta atctggcttg 420
ggantccngg ttaatgcttg gatttanttc ctgattacac tncntngaaa agtgagacat 480
ttgncattcc caactttggg aaaaccaact tatattcaac cntntnaatg aaggccatct 540
tgatggntcc aacactaatt tttatgatgc aaatttatac acngattttt gtaaagggca 600
aagttttaaa agcgtattta acttgatggt ttctatcagc attaatnaaa tggncatgaa 660
taggcattaa aaacagttgc cagtgatnat ctgcatgaaa ggaaaaagaa ccctgcaaat 720
ggctattgaa nttggaaata ttggntttga natgtaagaa aatntttaga aagctcncnc 780
tgng 784

<210> 148
<211> 775
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (775)
<223> n = A,T,C or G

<400> 148
gggcccantan agcatgctcg acggcccgcca gtgtgatgga tatctgcaga attcgccctt 60
agcgtggctg cggccgaggt, acaaagcact gtttaaaacc agtccaagat acttaatcca 120
aactgtatca tgattcttca ttagaaatct agacaccact catggtgggt tcttacactt 180
taaaaagttg aggcattttc agtgtgagca ttctgaatat ctcttacata tcaaaaacaa 240
tacttccaac tcaatagcca ttgacagggt tctttttcct tcatgcagat tatcactggc 300
aactgttttt aatgactatt catgaccatt ttatttatgc tgatagaaaa catcaagtta 360
aatacgcttt taaaactttg tcttttacia aaatcagtgat ataaatttgc atcataaaaa 420
ttagtggttg gaccatcaag atggccttca tttatatggt tgtatattag ttgggtttcc 480
cagagttggg aatggcagat gtctcacttt tctatgtagt gtaatcagga aataaatcca 540
agcactaaac aggaatccca agacagatta ataagggtgc atgatggatt ttaggggggtt 600
atgacctgg acgcatatac taatgtgggt gttaaaatac tgacagcaag ccctgggtggg 660
aattaattta cctcagacaa taaacattat ctggagagac ataaaggaaa atgttcattt 720
gcatattatc agcgtggctg ggtgtatcat agaaaaagaa aaagaaccctt ttan 775

<210> 149
<211> 783
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (783)

<223> n = A,T,C or G

<400> 149

acnntatgac	ctgatacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacccgatta	aaccagagca	120
aaaactacct	tctgcaggtc	agggagctaa	tgacatggca	ttggccaaac	gttcccgcag	180
tcgaactgct	acagaatgtg	acgttcgtat	gagcaagtct	aagtcagaca	atcagatcag	240
tgacagagct	gctttggagg	ccaaagtga	ggatcttctc	acgctggcaa	aaaccaaaaga	300
cgtagaaatt	ttacatttga	gaaatgaact	gcgagacatg	cgtgcccagc	tgggcattaa	360
tgaggatcat	tctgagggtg	atgaaaaatc	tgagaaggaa	actattatgg	ctcaccagcc	420
gactgatgtg	gagtcacatt	tattgcagtt	gcaggaacag	aatactgcca	tccgtgaaga	480
actcaaccag	ctgaaaaatg	aaaacagaat	gttaaaggac	aggttgaatg	cattgggctt	540
ttccctagag	cagagggttag	acaattctga	aaaactgttt	ggctatcagt	ccctgagccc	600
agaaatcacc	cctggtaacc	agagcgatgg	aggaggaact	ctgacttctt	cagtgggaang	660
ctctgccccct	ggctcantgg	gaggatctct	tgagtcagga	tgaaaataca	ctaattggacc	720
attagcacag	tacttcatgg	caatttagac	agtgagtga	atgaggtcta	ccagcccctt	780
ann						783

<210> 150

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 150

gggcccctan	agcatgctcg	acggccgcc	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tactgtgttg	gttctcttcc	atctgggtgta	tccgttcagt	120
caggcaagcc	acggacactt	cactggcatt	cccgtgctc	cccttccggg	agcgctctat	180
gctggggatg	ccttccgact	ctgaggagga	tggtgcatcc	agcgcatcat	cgctcgatgt	240
gaggggctgg	tagacctcac	tgactcact	gtctaaattg	tccatggagt	tactgtgctg	300
atgggtccatt	agtgtatttt	catcctgact	caagagatcc	tccactgagc	caggggcaga	360
gccttccact	gaagaagtca	gagttcctcc	tccatcgctc	tggttaccag	gggtgatttc	420
tggtgctcagg	gactgatagc	caaacagttt	ttcagaattg	tctaacctct	gctctagggg	480
aaagcccaat	gcattcaacc	tgctctttaa	cattctgttt	tcatttttca	gctgggtgag	540
ttcttcacgg	atggcagtat	tctgttctctg	caactgcaat	aaagtggact	ccacatcaag	600
tcggctgggtg	agccataata	gtttccttct	cagatttttc	atcaccctca	gaatgatcct	660
cattaatgcc	cagctgggca	cgcatgtctc	gcagttcatt	tctcaaatgt	aaaatttcta	720
cgtcttttgg	ttttggcagc	gtgagaagat	ccttncttgg	nctcnaagcn	g	771

<210> 151

<211> 778

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(778)

<223> n = A,T,C or G

<400> 151

acnntatgac	ctgatacgcc	agcttggtac	cgactcggat	ccactagtaa	cggccgccag	60
tgtgctggaa	ttcgcccttt	gagcggccgc	ccgggcagg	actttttttt	ttcttttttt	120
acatctgatt	ttaatgcttc	gttaacttca	aaaggaactg	gtagagttca	gaaggtgagc	180
tgttggtttt	ctaaacctct	tcccaggaag	gagacattga	cacttgaatt	tttggccact	240
tttccctcat	tagaaggaaa	gtagaaagcc	ttactgtagg	atttttaaaa	aaaaatccat	300
cttcccccat	attgggtcta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	360
gtagaattta	gatgggttca	tatatgtgag	aaaaacctga	atataggaca	ggggctctac	420
ttttttcccc	acctctgccc	cccaggctag	agtatagtgg	tgtgatcttg	gcccactgca	480

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acctctgctt cctaggttca agtgattctc ctgcctcage ctcccaagta gctgggattg 540
taagagtatg ccaccacgcc cagctacttt ttgtattttt agtagagaca gggtttcatc 600
atgttggcca ggatgggtctc ttaactcctg cctcacaagt gatccaccag agaggagatc 660
ctcggcctnc ccaagtgtctg ggattatagg catgagccac cgtaccacag ctactttcta 720
attaattaaa aaaaaannnn nnnnaaaaaa aacttnccaa atgagctgat aaaaacng 778

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<210> 152
<211> 772
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1) ... (772)
<223> n = A,T,C or G

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<400> 152
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cgtggctcgc gccgaggtac catgctgact tcttggtatc ttttaaggcc taattttccc 120
ttccttgaga ttactgtagt gtgttccagc taatttttat ttggaaacga gttggaacag 180
ctgaaaacta ggtattattg aaggcaagt agcctcacgt cagtttttta tcagctcatt 240
tggaagttt tttttttttt tttttttttt ttttaatta tagaaagtag gctgggtacg 300
gtggctcatg cctataatcc cagcacttgg ggaggccgag gatctcctct ctgggtggatc 360
acttgagggc aggagttaag agaccatcct ggccaacatg atgaaaccct gtctctacta 420
aaaatacaaa aagtagctgg gcgtgggtggc atactcttac aatcccagct acttgggagg 480
ctgaggcagg agaatcactt gaacctagga agcagagggt gcagtgggcc aagatcacac 540
cactatactc tagcctgggc ggcagagggt gggaaaaaag taggaccctc gtcctatatt 600
caggtttttc tcacatatat gaacccatct aaattctacg ttgttaaagg tagcttaagt 660
taattagtct atacttattt aagaccaata tggggtgaga tggatttttt tttaaaaaat 720
cctacagtaa ggntttctac tttccttcta atgaggaaaa angnggcaaa at 772

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<210> 153
<211> 780
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1) ... (780)
<223> n = A,T,C or G

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<400> 153
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ccagtgtgct ggaattcgcc cttagcgtgg tcgcggccga ggtacttttt tttttttttt 120
tttttttttt tttagttaaa gaatgcttta ttaatacaaa tacacacaaa ctctgaagca 180
ctaagaaatt taaatatcta tgtcacagca aacagggtggc aattcaacat ccagggtcga 240
cagaatgctt gaaggagact gcaacagatt ggattcccat ggtggagagg gcatnttcac 300
aggtgaaggg gggcccagct gaaacagctt ttcaagctct ctctcctcgt caaggatcat 360
gagaggcact ccactcaagg ggaggtgcgc aatctggtgc tcttcaggca ggtcaaaact 420
ctcaaagtct agaggattga agggaaaagaa tttttctatt tctggatagg catcatctga 480
ggcaggaaca gagctttttg ctttaacagt cttctcagtc atcttttttg cagaaaagct 540
tggtgttttt tgtttgaggg gtcccttggg ctttacagac tttctgttag ctctgttgac 600
agttcccaaa gcctttctag tagctttagg taaggctggg ggggcatcga acgttttgcc 660
aaaacgtggg gttgaaactt gagatctccc atctaangct ttgattgaan gtccagaccc 720
cagcttcagc ccattccttag caaccacacn ggtgcctggg tctncatttt ccttatnang 780

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<210> 154
<211> 770
<212> DNA
<213> Homo Sapien

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<220>

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<221> misc_feature
 <222> (1)...(770)
 <223> n = A,T,C or G

<400> 154

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gagcggccgc	ccgggcaggt	acgcggggac	cgccggcctca	gatgaatgcg	gctgttaaga	120
cctgcaataa	tccagaatgg	ctactctgat	ctatgttgat	aaggaaaatg	gagaaccagg	180
caccocgtgtg	gttgctaagg	atgggctgaa	gctgggggtct	ggaccttcaa	tcaaagcctt	240
agatggggaga	tctcaagttt	caacaccacg	ttttggcaaa	acgttcgatg	ccccaccagc	300
cttacctaaa	gctactagaa	aggctttggg	aactgtcaac	agagctacag	aaaagtctgt	360
aaagaccaag	ggaccctcca	aacaaaaaca	gccaaacttt	tctgccaaaa	agatgactga	420
gaagactgtt	aaagcaaaaa	gctctgttcc	tgccctcagat	gatgcctatc	cagaaataga	480
aaaattcttt	cccttcaatc	ctctagactt	tgagagtttt	gacctgcctg	aagagcacca	540
gattgcgcac	ctccccctga	gtggagtggc	tctcatgatc	cttgacgagg	agagagagct	600
tgaaaagctg	tttcagctgg	gcccccttc	acctgtgaag	atgccctctt	caccatggga	660
atccaatctg	gtgcagcttc	ttcaagcatt	ctgtcgaccc	tggtatgttg	attgccacct	720
gtttgctgtg	acatagatat	ttaaatttct	tagtgcttca	gagtttgnng		770

<210> 155
 <211> 767
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(767)
 <223> n = A,T,C or G

<400> 155

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gtgctggaat	tcgcccttag	cgtggctcgc	gccgaggtac	gcgggcccgc	tgataaactg	120
ccctgggaca	cagcagcggg	aagccgcctg	cagactgaac	ctcactgacc	caggtggaaa	180
tcgttaggtc	atttactgct	aagcagccag	atgaactctc	cctgcagggtg	gctgacgtcg	240
tcctcatcta	tcaacgtgtc	agcgatggct	ggatagaggg	ggaacgacta	cgagatggag	300
aaagaggctg	gtttcctatg	gaatgtgcca	aggagataac	atgtcaagct	acaattgata	360
agaatgtgga	gagaatggga	cgcttgctag	gactggagac	caacgtgtag	tctctcagat	420
ggtcttttgt	tactgcaaga	tttgcaagac	acttaccggg	ctggttggtt	ctgggctagt	480
tttattgnta	attttgtcac	agcctattta	attaaaagaa	cgaaaacact	tgcccttaag	540
cttgccagggt	tgttctgtct	tctcatgaga	agagcttgga	tacagtgaat	ttgcacagct	600
cagttttttc	ctaaccacac	acttgacagc	ctnctgaggt	acctgcccgg	gcggcgctc	660
gaaangcgga	attctgcaga	tatccatcac	acttggcggn	cgctcgaaca	tgcatctaga	720
nggcccaatt	cgncctatag	tgagtcgtat	tacaattcac	tggnicgc		767

<210> 156
 <211> 827
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(827)
 <223> n = A,T,C or G

<400> 156

attgggcccc	tagatgcatg	ctcgacggcc	gccagtgtga	tggatatctg	cagaattcgc	60
cctttcgagc	ggccgcccgc	gcaggtacct	caggaggtct	gcaagtgtgt	ggttaggtaa	120
aaactgagct	actgcaaac	actgtatcca	agctcttctc	atgagagagc	agaacaacct	180
ggcaagctta	aaggcaagtg	ttttcgttct	tttaattaaa	taggctgtga	caaaattaac	240
aataaaacta	gcccagaacc	aaccagcccc	gtaagtgtcg	tgcaaactct	gcagtaacaa	300
aagaccatct	gagagactac	acgttgggtc	ccagtcctag	caagcgtccc	attctctcca	360
cattcttatc	aattgtagct	tgacatgtta	tctccttggc	acattccata	ggaaaccagc	420

ctctttctcc	atctcgtagt	cgttccccct	cataccagcc	attggctgac	acnttgattg	480
gatgaaggcc	ancttanncc	nactngcagg	gagaagtcaa	tttgnttgnt	taaccnntna	540
atggancctt	accnanttnc	acctgggggtc	aagtgagggt	tcaagtctgc	angcgggttc	600
ccgctgctgt	ggtcccaagg	gcaagttatn	cagcggggcc	cgcgttacct	tgggcccggg	660
accaacgcct	taangggccg	aaattttccaa	gcacacttgg	ccggcccgtt	acctagtggg	720
atnccgaact	tgggtaccc	aaagccttgg	gcgttaatca	atgggtcaat	aggcttggtt	780
tcctggtgtg	naaaattggt	aatccggttc	acaanttccc	cacaaca		827

<210> 157

<211> 818

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (818)

<223> n = A, T, C or G

<400> 157

aacactatga	cctgatacgc	cancttggtg	ccgnetcgga	tccttagtaa	cgggccgcag	60
tgtgctggaa	ttcgcccttt	cgagcggccg	ccgggcagg	acataatctg	gaaatttatg	120
ttacagggtat	gcatatttgt	atatgaaaaa	tattaactga	gaaattactg	agcttcttag	180
caaaaaatat	aattattttca	gagatatgat	acagtttaaat	atctgccttc	ctcaaaaagt	240
cagaaaataa	aaagtttttaa	attgcatata	ttttcatttc	ttacatatgt	cagaacactc	300
agaattttta	ataaaatggt	ttaaaacata	attataagtt	gttactttta	tttctatggt	360
tagtggaacc	cacaggggtcc	tgtatctgat	taaatggagg	atatattagg	agaatttttt	420
agaagaatga	cacatgtgac	ataccaccat	atttgcaaga	aaatataact	tgatagtaga	480
gtaagtttagc	tgctttatata	gatgaattaa	aggcactagc	tccttagaaaa	aaaaggatta	540
aaatgctgac	ttcagtaata	atgtaaggag	ctctgctctt	taacatttcc	taattaggtg	600
taaaactatga	tggaaggga	aggtggaatg	gaagtntcta	cntnttacca	ttggctttcn	660
ttcatgaaat	tggcaggnag	cctnccattt	cnnnaggmct	ttaatnaaaa	antttttccc	720
aacttttntct	tttcnaaaaa	nttntttncc	nnatngnnaa	ctggnggtna	aaacccggct	780
tttttggggg	gaaancetac	ctggntnggg	naaaaaant			818

<210> 158

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (772)

<223> n = A, T, C or G

<400> 158

ntgggcccct	nnagcatgct	cgacggccgc	cagtgtgatg	gatatctgca	gaattcgccc	60
ttagcgtggt	cgcgcccgag	gtacttcaac	caccctcct	acaaaactct	atacccttgt	120
catattaaaa	ttgtatgtta	tgccaggctt	ccctaataca	acaaaatctc	tgaataaaaac	180
ctattaaata	tacaatttct	atcaacatgc	ctgccacaca	tgcttaataa	ttgcttagtg	240
aatacaagat	taatgcatga	gtgcctaagt	tacttcatct	agtataacaa	atgacaatat	300
ctcatttggt	tcccgaagta	tccttattcc	attcaagctc	tgaagaaagt	attaatgata	360
ttcgtccctta	agtaattttt	tctgcattca	aatctcacca	ttcaaatgat	tttccaacag	420
tagtttcccc	aaaagcagtt	tacacagtta	catttggtat	aatttttgaa	agaaaagttg	480
ggaaaatttt	attaagactc	tgaatgtagc	ttactgccaa	ttcatgaaga	aagcaatgta	540
atacgtagat	acttcattcc	acctttccct	tcacatagat	ttataactaa	ttaggaaatg	600
ttaaagagca	gagctcctta	cattattact	gaagtcagca	tttatacttt	tttttctaag	660
agctagtgcc	tttaattcat	catataaagc	agctaactta	ctctactatc	aagttatatt	720
ttcttgcaaa	tatggtggta	tgtcacatgt	gtcattcttc	taaaaaattc	tg	772

<210> 159

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 159

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gnaangcccc	tttccggggg	gggaaattcc	cccccaacct	ttaaagggtt	aaaaaccogg	120
gggccncccg	gccccccaaa	ggtttgggtt	tgggcccttt	gggggggaaa	aattttttcc	180
gggccccccc	nttttttaaag	gccgggttgg	gggggtttcc	ggggccgggg	gccccccgga	240
aaaggggttt	aacccccctn	aatttttttn	gggtttttcc	cccccaaata	gggtttccaa	300
tttttttttt	tttaaaaaaac	ccaaaanggg	aaaaaaaggg	gttggcccaa	aatttaaggg	360
cctttctttc	aaaagggttt	cctttgggaa	aaaaaaacct	tgggttgggg	gaaaagggtt	420
nccccaaaaat	ttaaaccttg	gaaaaccttc	tttgggnaac	ccactttaaa	aatttaaant	480
taaanttaaa	tttaaattta	aanntaagga	atgggnttgg	aaaaaaaaag	gaatattccn	540
ttaatttggc	cttaattttt	taatttgntn	atttgactgg	tnatgnnttt	acttttnaaa	600
aacntnctnn	ccaaaaacca	attttacntg	gncnngtggg	atttaccntn	ttcnattacc	660
ngggagttaa	cccaactnga	acntttngga	gggnccagtc	ctccataggg	acctccntca	720
ntnttgatnc	caactgcaag	ttcaggggaaa	ttctcacatc	ccccttgggc	natatatctc	780
tttaaaagcn	cctcacagca	ctcactgaan	tctattatat	tatagatang	gtntattatg	840
ggaaaanggt	nacanttcaa	natnncccaa	cgcggggana	cacannngnc	agngccccgat	900
gatnttccna	nacacagant	ttggtgttct	ctggagncgt	ttccccnta	gnaaaatggt	960
gacacntgga	cagagttttt	acccccaggg	gaacgtnaat	caatctttgg	aagtttcaaa	1020
tcag						1024

<210> 160

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 160

gggcctctnn	agcatgctcg	agcgggccgc	agtgtgatgg	atatctgcag	aattcgccct	60
ttcgagcggc	cgccccgggca	ggtactgtaa	gttattttct	tccttatctc	ccaatgacac	120
tgttttctac	atgaaaaata	ccattttggc	tttatcaaca	tgttattaat	tcataatatg	180
agagatctat	cagcactatt	tgtaaaaaata	ttcaattaaa	aaaattaaga	tgatttatag	240
ttgtgtggta	aagaatttga	ccttacccaa	aggaggtcag	gcttttgccc	tcagccttaa	300
ggagataatc	ttgtcatacc	caataaaagt	gttattttta	agtgaggctg	actacacctg	360
ataatccagc	ttgagggaca	gttatgccag	tttgaccaac	tagatgattt	agggagcttt	420
ctctcccaac	ttcaaagctg	tgatgaatca	aacaggtaat	taatcgatca	tgcttatgta	480
atgaagcctt	gattgaaact	tcaaagattg	attgacgttc	cttggttggt	aatactctgt	540
catgtgtcaa	ttctagaagg	gtaatacgtc	ctgaggataa	cagaagctct	gtgtttgga	600
tcaccttgga	ctctgcactt	tgnttctcct	gctttggctg	attttgatct	gtaaccttta	660
ccataataaa	accataacta	taatataata	gatttcagtg	agtgcgtgta	ngctttctag	720
tgatttattg	aacctaaagg	tgatgtgag	aatttnctga	acttgcagtt	g	771

<210> 161

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 161

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acncttgacc tgatcgccag cttggtaccg actcggaccc tagtaacggc cgccagtgtg      60
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aatggcaagt ggtaatttag aagaattaag ttatcagata ggagatatat taaaatattt      180
aaaaattgga tatattcttg aagccctttt acacaagtaa tttctataat ttgattgtaa      240
tgaaagtata atataccttg ttactattat cagattaatt tttgaaagta gaattcctta      300
atcaagccaa ggttatgctg ctttataaga aattaatcag gtagtttaac actagagctc      360
attagccaac ctgtatgtag cacaaaataa tcatctctga taaataccta taaatatatt      420
ttattcatac ttttaaatat tttaacaatt aaataaaaaa cttatatgta gacaatctgg      480
gctaaatttc catgtatggt ttgaaaaata atgttagcat gaatagattc atattttaa      540
atgattttta atactcttaa tagaggagac ataagaaata tttacataaa agctaagtag      600
catgatacag ctcatgggta ttttcctcat agggaaacaa ttacttgatt ttttttgca      660
taggattaaa gactgagtat cttttctaca ttcttttaac tttctaangg gcacttctca      720
aaacacagac caggtagtaa atctncactg ntctaagggtc tcacccact t              771

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<210> 162

<211> 768

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (768)

<223> n = A, T, C or G

<400> 162

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gggcccctnn agctgctcgn cggccgcccag tgtgatggat atctgcagaa ttcgccctta      60
gcgccgccc gggcaggtag tacaaaaaca gaataatttt gaagttttag aataaatgta      120
atatatttac tataattcta aatgttttaa tgcttttcta aaaatgcaaa actatgatgt      180
ttagttgctt tattttacct ctatgtgatt atttttctta attgttattt tttataatca      240
ttatttttct gaaccattct tctggcctca gaagtaggac tgaattctac tattgctagg      300
tgtgagaaag tgggtggtgag aaccttagag cagtggagat ttactacctg gtctgtgttt      360
tgagaagtgc cccttagaaa gttaaaagaa tgtagaaaag atactcagtc ttaatcctat      420
gcaaaaaaaaa atcaagtaat tgttttccta tgaggaaaat aaccatgagc tgtatcatgc      480
tacttagctt ttatgtaaat atttcttatg tctcctctat taagagtatt taaaatcata      540
tttaaatatg aatctattca tgctaacatt attttcaaaa acatacatgg aaatttagcc      600
cagattgtct acatataagg tttttatttg aattgtaaaa tatttaaaaag tatgaataaa      660
atatatttat aggtatttat cagagatgat tattttgtgc tacatacagg ttgggctaatt      720
gagctctagt ggtaaacctac ctgataattt cttataaagc agcatacc              768

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<210> 163

<211> 776

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (776)

<223> n = A, T, C or G

<400> 163

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nantatgacc tgatacgcca acttgggtacc gactcggatc cactagtaac ggccgcccagt      60
gtgctggaat tcgcccttag cgtgggtcgcg gccgaggtag tcttcgcgag aggggaaggct      120
gtagaagtct ttgcaagctt catacagaga aatacaaaaag gtgtgatgcc attaactggg      180
cctttctaaa gcattaggaa tttagtgaag ctctcaaaaca caaaactgaa aagccatttg      240
aacaaatctc atatacttgt agataagctt ttttttattt aaagcataca aattcaaatc      300
tttcaagcag aaaattcagt caagtgagat ccattgggtg tttgagttca aagtcagtga      360
gcaaatggaa atcattgcgg catctctctc atttccttag tggacattag accactcaaa      420
atgtgtcaca taatttacag ccccttggtg gtaattgaat atacacgttg agagtgcact      480
ggcagaacac ttaagaaaga ttgaatgcag gaggaccagc ttacgttatt tttggctcta      540
ctctgggttt tgcttttaat gtttttctt gagattaatt tcaattgggt tgttccatcc      600
tattcaaaca aatgctttga gagaagagat gaacagcagc atcaaataaa atttgtatat      660

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ttagtttnag agacatcang tgttgtaatc aaataagaca gaanggccaa gttaaaatct 720
gtgattngca taaatgaatt taactgttag aatagcanaa ttgagaggtg gattan 776

<210> 164

<211> 773

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (773)

<223> n = A,T,C or G

<400> 164

cgggcctcta	gatgctgctc	gacggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcgccg	cccgggcagg	tacacagtgg	ataccacata	ctcgctctga	ggaagaagga	120
ggaggagaaa	gaggagaagg	aaggaaattt	tcaaatagaca	atttctatca	ggactcattt	180
tcctattata	agttcagaat	acttggacgt	ctttataaaa	tcaagttgaa	atctctacta	240
ttttgatctg	tattctctta	aatattaaag	gttataccta	gggagattcc	atgttgactg	300
gcaaacaaag	cataccattt	taagaataac	tcttcataaa	atatgtgtct	aagaattaaa	360
agtgtctagt	aacagatata	caaaagagag	attagaata	attaatattt	aaagacagat	420
aattttaatg	tttcacactt	ttaactacaa	aattctttgt	tttctaaat	attagcaaaa	480
atgttatata	ttaaaataaa	tcttgaaaat	ctcaccctac	atthagataa	tagttcaaaa	540
gtcatattgc	taatctacct	ctcaattctg	ctattcttac	agcttaaatt	catttatggc	600
aaatcacaga	ttttactttg	tccttctgtc	ttatttgatt	acaacacctg	atgtctctga	660
aactaaatat	ccaattttatt	tgatgctgct	gttcatctct	tctctcaaag	cattngtttg	720
aatangatgg	aacaacccaa	ttgaaattaa	tctcaaggaa	aaacattaaa	ant	773

<210> 165

<211> 783

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (783)

<223> n = A,T,C or G

<400> 165

tnnnnnacac	tatgacctga	ttacgccanc	ttggtaccga	ctcggatcca	ctagtaacgg	60
ccgccagtgt	gctggaattc	gcccttagcg	tggtcgcggc	cgaggtagag	taggaaaata	120
agaataacaa	cgggcaaaat	cttttttagaa	catttatgct	ttatctgttt	tagcttctaa	180
aacaatcctg	aaggatgaat	aattatcatg	agtatagcag	aattttaattt	tccctgttgc	240
tccaaaattt	taatgaaaac	tttacggttg	agagaaatag	gtaaataaaa	aaacttccta	300
aaattctaaa	gacaattgtt	gaataaaaatt	taagtgaatg	agtttgtgct	tcatatttaa	360
cttttaactt	tccaataggc	tttattaaat	ggaaaactga	aatttacaaa	gtcttagagt	420
agaagcattt	ttatcctggc	tagggattct	ctaagagAAC	cagtagcacc	aagatgcact	480
ggaacagtgc	aacgagagag	ttcatgcctt	agggtttaga	agcatacaag	caaagggaat	540
ggtgcccact	tcttactaga	aaaatttcac	aggctggagt	ctgggcggag	gagcctggga	600
tgacagtaga	agtgtgcagg	aagcactaag	tctagcctgt	acctgcccgg	gcggccgctc	660
gaaaggcgaa	ttctgcagat	atncatcaca	ctggccggcc	gntcgagcat	gcatntagag	720
ggcccaattc	gcctatagtg	ancgtattac	aattcactgg	ccgcgtttta	caacgtnnng	780
cnn						783

<210> 166

<211> 775

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (775)

<223> n = A, T, C or G

<400> 166

attgggacctc	tnnagcatgc	tcgagcggcc	gccagtggtga	tggatatctg	cagaattcgc	60
ccttcgagcg	gccgcccggg	caggtacagg	ctagacttag	tgcttcctgc	acacttctac	120
tgtcatccca	ggctcctccg	cccagactcc	agcctgtgaa	atctttctag	taagaagtgg	180
gcaccattcc	ctttgcttgt	atgcttctaa	accctaaggc	atgaactctc	tcgttgcact	240
gttccagtgc	atcttggtgc	tactgggtct	cttagagaat	ccctagccag	gataaaaatg	300
cttctactct	aagactttgt	aaatttcagt	tttccattta	ataaagccta	ttggaaagtt	360
aaaagttaaa	tatgaagcac	aaactcattc	acttaaattt	tattcaacaa	ttgtctttag	420
aatttttagga	agttttttta	tttacctatt	tctctcaacc	gtaaagtttt	cattaaaatt	480
ttggagcaac	agggaaaatt	aaattctgct	atactcatga	taattattca	tccttcagga	540
ttgttttaga	agctaaaaca	gataaagcat	aaatgttcta	aaaagatttt	gcccgttggt	600
attcttattt	tcctactgna	cctcggccgc	gaccacgcta	agggcgcaatt	ccagcacact	660
ggcggccggt	actagtggat	ccgagctcgg	taccaanctt	ggcgtaatca	tggtcatagc	720
tggttcctgt	gtgaaantgt	atccgntcac	aattcacaca	acatacganc	cggag	775

<210> 167

<211> 797

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (797)

<223> n = A, T, C or G

<400> 167

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gccgccagtg	tgctggaatt	cgcccttagc	gtggctcgcg	ccgaggtact	ttcagaaggt	120
aaatcagtag	atcacccatg	tgtatctgca	ccttctcaac	tgagagaaga	accacagttg	180
aaacctgctt	ttatcatttt	caagatgggt	atctgtagaa	ggcgaggaaac	caattatgct	240
tgtattcata	agtattactc	taaagtgttt	gtttttgtaa	ttctgactaa	gaccttttaa	300
ccatgggttag	ttgctagtac	ccttccttgt	ccgaaggagc	tgaccagtat	tgatgagaga	360
gtccaggcag	ctcctgaagt	tcagctggta	gtttgttctc	tgaacatttg	gtctcttgaa	420
ggcacagtat	atctggggct	tcttccttta	cccaatctaa	tcctttcttc	ttaatccagg	480
ctcgaagccc	atncacattc	caagagcaga	tcttgagtgt	ggcagggttg	ccactgggtg	540
aggttttctg	atctgggggg	tcctcataca	gggctggggc	cctntcctgc	tgccctcttg	600
tcattttctt	tgccggccgt	cttactcttc	ttggcctctg	gcttctgtcc	tgagctcatc	660
cccgtctttc	ggccaccngt	tccccttttt	tacacgcctt	cggcatttcc	cgttaccgaa	720
cgccctttgg	gcagctgtac	ctgccccngg	cgcccggttcg	aaaaggccna	attcttgcag	780
aatttccatc	ncaccnn					797

<210> 168

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (780)

<223> n = A, T, C or G

<400> 168

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tgtgctggaa	ttcgccctta	gcgtggctgc	ggccgaggtg	ctccggctcg	tgctcagcagc	120
acgcggcatt	gaacattgca	atgtggagcc	caaaccacag	aaaatggggg	gaaattggcc	180
aactttctat	taacttatgt	tggcaatttt	gccaccaaca	gtaagctggc	ccttctaata	240
aaagaaaatt	gaaaggtttc	tcactaaacg	gaattaagta	gtggagtcaa	gagactccca	300
ggcctcaggt	tacctgcccg	ggcgcccgct	cgaaggcgcg	aattctgcag	atatccatca	360
cactggcggc	cgctcgagca	tgcatctaga	gggcccattt	cgccctatag	tgagtogtat	420
tacaattcac	tggccgctgt	tttacaacgt	cgtgactggg	aaaaccctgg	cgttacccaa	480

cttaategcc	ttgcagcaca	tccccctttc	gccagctggc	gtaatagcga	agaggcccg	540
accgatcgcc	cttcccaaca	gttgcgcagc	ctgaatggcg	aatggacgcg	ccctgtaacg	600
gcgcattaag	cgcgccgggt	gtggtggtta	cgcgacgcgt	gacccgtaca	cttgccagcg	660
ccctanccgc	cgctnctttc	gctttcttcc	ctttctttct	tngcacgttc	gccggctttt	720
cccgtcaagc	tctaaatcgg	gggctccttt	tanggttccg	atttantgct	ttacnagnacn	780

<210> 169

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (771)

<223> n = A, T, C or G

<400> 169

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cgagcggccg	cccgggcagg	tacgctgagg	cctgggagtc	tcttgactcc	actacttaat	120
tccgtttagt	gagaaacctt	tcaattttct	tttattagaa	gggccagctt	actgttggtg	180
gcaaaattgc	caacataagt	taatagaaag	ttggccaatt	tcacccatt	ttctgtggtt	240
tgggctccac	attgcaatgt	tcaatgccgc	gtgctgctga	caccgaccgg	agtacctcgg	300
ccgcgaccac	gctaaggggc	aattccagca	cactggcggc	cgttactagt	ggatccgagc	360
tccgtaccac	gcttggcgta	atcatggtca	tagctgtttc	ctgtgtgaaa	ttgttatccg	420
ctcacaattc	cacacaacat	acgagccgga	agcataaagt	gtaaaagcctg	gggtgcctaa	480
tgagtgaagt	aactcacatt	aattgcgttg	cgctcactgc	ccgctttcca	gtcgggaaac	540
ctgtcgtgcc	agctgcatta	atgaatcggc	caacgcgcgg	ggagaggcgg	tttgcgattt	600
gggcgctctt	ccgcttcttc	gctcactgac	tcgctgcgct	cggtcgcttc	gctgcggcga	660
gcggtatcaa	gctactcaaa	ggcngtaata	ccgntatcca	cagaatcagg	ggataacgca	720
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<210> 170

<211> 777

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (777)

<223> n = A, T, C or G

<400> 170

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gtgctggaat	tcgcccttag	cgtggctcgc	gccgaggtag	acagaatagc	tgagcagttc	120
acttcaggga	tcaggtcac	tctgctcttc	ctagtttcac	catgttctgg	caataaaaaa	180
cacatattat	atcctgggtt	tctctatcct	tgcattacta	aggtgactgt	ctctctttat	240
acatccttgt	atggttctcc	cagtattagc	aagattgtat	atctgtaaag	aatgtccagt	300
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aacttcaaaa	ggaactggta	gagttcagaa	ggtgagctgt	tgtttttcta	aacctcttcc	420
caggaagggg	acattgacac	ttgaattttt	gtcacctttt	tcctcattag	aaggaaagta	480
gaaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	accccatatt	ggctcttaaat	540
aagtatagac	taattaacct	aagctacctt	taacaacgta	gaatttagat	gggttcatat	600
atgtgagaaa	aacctgaata	taggacaggg	gtcctacttt	tttccccacc	tctgtcgccc	660
aggctagagt	atagtgggtg	gatcttggcc	cactgnaacc	tctgcttcc	anggtcaagt	720
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<210> 171

<211> 782

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature
<222> (1) ... (782)
<223> n = A,T,C or G

<400> 171

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tttcgagcgg	ccgcccgggc	aggtaacttt	tttttttttt	tttttttttt	tttaattaat	120
tagaaagtag	gctgggcacg	gtggctcatg	cctataatcc	cagcacttgg	ggaggccgag	180
gatctcctct	ctgggtggatc	acttgagggc	aggagttaag	agaccatcct	ggccaacatg	240
atgaaaccct	gtctctacta	aaaatacaaa	aagtagctgg	gcgtgggtggc	atactcttac	300
aatcccagct	acttggggagg	ctgaggcagg	agaatcactt	gaacctagga	agcagagggt	360
gcagtggggc	aagatcacac	cactatactc	tagcctgggc	gacagagggtg	gggaaaaaag	420
taggacccct	gtcctatatt	cagggttttc	tcacatatat	gaacccatct	aaattctacg	480
ttgttaaagg	tagcttaggt	taattagtct	atacttattt	aagaccaata	tggggtgaga	540
tggatttttt	tttaaaaatc	ctacagtaag	gctttctact	ttccttctaa	tgaggaaaaa	600
ggtgacaaaa	attcaagtgt	caatgtcccc	ttcctgggaa	gaggtttaga	aaaacaacag	660
ctcaccttct	gaactctacc	agttcctttt	tgaaagttaa	ccgaagcatt	aaaatcagat	720
gttaaaaaag	aaaaaaaaaa	ggcngggaaa	atatttacaa	aactgggaca	ttctttacag	780
an						782

<210> 172
<211> 773
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (773)
<223> n = A,T,C or G

<400> 172

canttgcact	gatacgccaa	cttggtaccg	actcggacca	ctagtaacgg	ccgccagtgt	60
gctggaattc	gccctttcga	gcggcccgcc	gggcaggtag	catcctgtgg	ctccttaagg	120
aggcttctct	ctttaattct	ccatgaggca	tccagggtgg	tctgggctat	gggaagaacc	180
cttcaacttg	ggagtagaca	ggtgctccaa	ttcatagtgc	ccattctcag	aggccttggtg	240
tgtgagtttc	tccttcacgc	cttccttctg	gctcttcttg	tgtccataa	tctgctggag	300
ctggtgccca	gcatagtctg	gcttggtggt	cagcgggcca	gccggcacag	ctacaccaag	360
gacatctgac	accatgtagg	ggcgcagcca	gccaccaag	ggagtgttc	cggggctgta	420
gtgggtctgt	ttgtggtaga	agagaagtc	atctacctca	aaagggaaat	ccatagatag	480
cacatcacac	aggctttcgg	gagtgcgaag	gaagttcttt	agccccacaa	atttaaaagg	540
attaagcttg	gttttctctc	ccagtccttc	ttcttctggt	aactttgaat	gcatccagta	600
gaatcggaaa	tcaagtctgg	caatcataaa	aagggtgtcc	ccgccagcac	atcacattca	660
gaacgtagta	ggtctgggtt	acctcattgt	aaatgcaatc	tagaatggtg	taagcttttg	720
ctgntgaagt	ttccctgtgc	ctctggcaga	atgaagaaan	ctgttgacac	aac	773

<210> 173
<211> 772
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (772)
<223> n = A,T,C or G

<400> 173

ntgggcctct	nnagctgctc	gacggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtggtcg	cggccgaggt	acagttcctt	ggagcagagt	gagcggccgc	ggaggttact	120
ggaactgcag	aaatccaagc	ggctggatta	tgtgaacctt	gccagaagac	tggctgaaga	180
tgactggaca	gggatggaga	gtgaggaaga	aaaataagaa	agatgatgaa	gaaatggaca	240
ttgacactgt	caagaagtta	ccaaaacact	atgctaatac	attgatgctt	tctgagtggt	300
taattgacgt	tccttcagat	ttggggcagg	aatggattgt	ggctcgtgtc	cctgttgga	360

aaagagccct	tatcgtggcc	tccaggggtt	ctaccagtgc	ctacaccaag	agtggctact	420
gtgtcaacag	gttttcttca	cttctgccag	gaggcaacag	gcgaaactca	acagcaaaaag	480
actacaccat	tctagattgc	atttacaatg	aggtaaacca	gacctactac	gttctggatg	540
tgatgtgctg	gcggggacac	cctttttatg	attgccagac	tgatttccga	ttctactgga	600
tgcattcaaa	gttaccagaa	gaagaaggac	tgggagagaa	aaccaagctt	aatcctttta	660
aatttgtggg	gctaaagaac	ttcccttgca	ctcccgaag	cctgtgtgat	gtgctatcta	720
tggatttcct	tttgaggtag	atggacttct	cttctaccac	aaacagaccc	ac	772

<210> 174

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (780)

<223> n = A,T,C or G

<400> 174

acactatgac	ctgatacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgccc	60
agtgtgctgg	aattcgccct	tagcgtggtc	gcggccgagg	tacaaaaata	cattttttcca	120
catacaaaaag	agagaaaaaa	acaaagacat	gtggcgggtg	gcgaggggag	gccaatccc	180
aacaccctac	aaggttccat	ggaatggaga	aggaacaaaa	aatcccccaa	ttattttggg	240
gtaagatgtg	ccccagaaaa	ggtgaaatct	atgcaataaa	acccagggtt	tcttcaaadc	300
tagcatctag	gatttctatc	agagtttcaa	ataatcagaa	tttctatcag	aatttctacc	360
ctgagggtgac	acctaactaac	tgtagggttct	ttcattaaaa	atgaagacat	ctttcaccag	420
aatgtatcaa	gctataaaaac	tggtttcaga	gcctacactt	agccagagtg	gaaaaaaaat	480
agtgcataatt	ttcgacagca	attttgaatt	gatgcttgag	gtctcaatcc	accagcacc	540
agatatcatg	ttacctccct	cagttgaata	caagttaaaa	tgatgatctt	atcgagatct	600
caatagagca	cagtgccctt	catgtttcgg	gtaagaaggt	gggaggagga	atgaagccgg	660
gtattacacc	cagcccaatg	acagcttaag	ccttaacatg	cnggcattct	acaatgacca	720
taaacaaggg	angggccaag	canggctngc	gatcattact	ttgcgcacag	aatgccatgt	780

<210> 175

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (771)

<223> n = A,T,C or G

<400> 175

gggcctctag	agcatgctcg	agcggccgccc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcggcc	gccgggcagg	tactaaaaca	gctttgctta	tggtggccag	gggaaaacat	120
ggcattctgt	gcgcaaagct	aatgatcgcc	agccctgect	tgccccctcc	cttgtttatg	180
gtcattgtaa	gatgcccgcg	tgtaaggct	taagctgtca	ctgggctggg	tgtaataccc	240
gcttcattcc	tcctcccacc	ctcttaccgg	aaacatgaag	ggcactgtgc	tctattgaga	300
tctcgataag	atcatcattt	taacttgat	tcaactgagg	gaggtaacat	gatattctggg	360
tgctggtgga	ttgagacctc	aagcatcaat	tcaaaattgc	tgctgaaaat	atgcactatt	420
ttttttccac	tctggctaag	tgtaggctct	gaagccagtt	ttatagcttg	atacattctg	480
gtgaaagatg	tcttcatttt	taatgaaaga	acctacagtt	agtaggtgtc	acctcagggg	540
agaaattctg	atagaaattc	tgattatttg	aaactctgat	agaaatccta	gatgctagat	600
ttgaagaaaa	cctgggtttt	attgcataga	tttcacctt	tctggggcac	atcttacc	660
aaaataattg	gggatttttt	tgntccttct	ccattccatg	gaaccttgta	gggtgtttgg	720
gattgggcct	tcctngcca	cccgccacat	gtctttgggt	ttttctctct	t	771

<210> 176

<211> 773

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(773)

<223> n = A,T,C or G

<400> 176

atngggcctc	tagagcatgc	tcgagcggcc	gccatgtgat	ggatatctgc	agaattcgcc	60
cttagcgtgg	tcgcggccga	ggtactcatg	tatttttttt	ttttccaga	tctctttccc	120
caagttgcta	ttgtaagagt	attctgctgc	gtgtggatgc	agttatacac	attaaagcag	180
atctggagtc	tgaagtagct	ataaagcagc	tataaaacag	aaatacatgc	atagctgcag	240
aaacatgat	aggtagagga	cttttctttt	ggttttgttt	tgttttgttt	tgttttgttt	300
ttggttttac	agagaagaga	tttttattac	aaagaaaaaa	attccagtga	attgtgcaga	360
aatgctgggt	tttacaccat	cctaaagaaa	aactttacaa	gggtgttttg	gagtagaaaa	420
aaggttataa	agttggaatc	ttaaattgta	aaattaacca	ttgagtgtca	aagttctaaa	480
agcagaactc	attttgtgca	atgaacataa	ggaaagacta	ctgtataggt	tttttttttc	540
tccttttaaa	tgaagaaaag	ctttgcttaa	gggttgcata	cttttattgg	agtaaactctg	600
aatgatccta	ctcctttgga	gtaaaaactag	tgcttaccag	tttccaattg	tatttagctt	660
ctggttggaa	tttgaaaaaa	aaagaaaaaa	agaaaaagaa	aacctaataa	aaataggtga	720
aagttccctg	actattcagg	tgaatacnca	aaaanaaaan	nnnnnnnaann	nnt	773

<210> 177

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(772)

<223> n = A,T,C or G

<400> 177

acattngacc	tgatacgcca	gcttgggtacc	gagctcggat	ccactagtaa	cggccgccag	60
tgtgctggaa	ttcgccctta	gcgtgggtcgc	ggccgaggta	cagtaggaaa	ataagaataa	120
caacgggcaa	aatcttttta	gaacatttat	gctttatctg	ttttagcttc	taaaacaatc	180
ctgaaggatg	aataattatc	atgagtatag	cagaatttaa	ttttccctgt	tgctccaaaa	240
ttttaatgaa	aactttacgg	ttgagagaaa	taggtaaata	aaaaaacttc	ctaaaattct	300
aaagacaatt	gttgaataaa	atttaagtga	atgagtttgt	gcttcattat	taacttttaa	360
ctttccaata	ggctttatta	aatggaaaac	tgaaatttac	aaagtcttag	agtagaagca	420
tttttatcct	ggctagggat	tctctaagag	aaccagtagc	accaagatgc	actggaacag	480
tgcaacgaga	gagttcatgc	cttanggttt	agaagcatac	aagcaaaggg	aatggtgccc	540
acttcttact	agaaaaattt	cacaggctgg	agtctgggcg	gaggagcctg	ggatgacagt	600
agaagtgtgc	aggaagcact	aagtctagcc	tgtacctgcc	cgggcggncg	ctcgaagggc	660
gaattctgca	gatatccatc	acactggcgg	ccgctcgagc	atgctctana	gggcccatt	720
cgccctatag	tgagtcggat	tacanttnaa	tggccgncgt	tttacaacgt	cc	772

<210> 178

<211> 770

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(770)

<223> n = A,T,C or G

<400> 178

attgggcccc	tnnagcatgc	tcgngeggcc	gccagtgtga	tggatatctg	cagaattcgc	60
ccttcgagcg	gccgcccggg	caggtagcag	ctagacttag	tgcttctctg	acacttctac	120
tgteatccca	ggctcctccg	cccagactcc	agcctgtgaa	atttttctag	taagaagtgg	180
gcaccattcc	ctttgcttgt	atgcttctaa	accctaaggc	atgaactctc	tcgttgact	240
gttcacgtgc	atcttggtgc	tactgggtct	cttagagaat	ccctagccag	gataaaaatg	300

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cttctactct aagactttgt aaatttcagt tttccattta ataaagccta ttggaaagtt 360
aaaagttaaa tatgaagcac aaactcattc acttaaatTT tattcaacaa ttgtcttttag 420
aatttttagga agttttttta tttacctatt tctctcaacc gtaaagtttt cattaataatt 480
ttggagcaac agggaaaatt aaattctgct atactcatga taattattca tctttcanga 540
ttgttttaga agctaaaaca gataaagcat aaatgttcta aaaagatttt gcccgttggg 600
attcttattt tctactgta cctcgccgcn gaccacgcta agggcggaatt ccagcacact 660
ggcgccgnt actagtggat ccgagctcgg taccacaact tggcgtaatc atggncatag 720
ctgttcctgn gngaaatngn natncgntna caattncac acatacnann 770

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<210> 179

<211> 502

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(502)

<223> n = A,T,C or G

<400> 179

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cnmnttgach tgattcgcca acttgggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctggaat tcgcccttag cgtggtcgcg gccgaggtag ctggcccca acttctcgaa 120
taaaatgaaa ctatgattct tggcctcact cactaccatg tgacattgat caaatcactt 180
cacctctcca aacctcagag tctttatctg taagatggaa aaagtaacac ctacttcagg 240
ggctgtcatg aggattaaat aaatgtgccc agcaggtagt aagtatacaa cacaaagcat 300
ctaattgggtc attcatacat ttgcttattt tgcaattatt ggccacctgc caatgttggg 360
cactgttcta ggcacagggg atacagcaag ggcaaacacc taactactgg tggaggggag 420
acgataaaca aatacgtaaa gatttgtgcc aggtagtgat aaaagcaaag aatgactcat 480
ggagaggggtc agctggggag ac 502

```

<210> 180

<211> 823

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(823)

<223> n = A,T,C or G

<400> 180

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gggccttnna gcatgctega cggccgccat gtgatggata tctgcagaat tcgccctttc 60
gagcgggcgc ccgggcaggt actgctgggt ctccccagct gacctctcc atgagtcatt 120
ctttgctttt atcactacct ggcacaaatc tttacgtatt tgtttatcgt ctccctcca 180
ccagtagtta ggtgtttgcc cttgctgtat cccctgtgcc tagaacagtg cccaacattg 240
gcagggtggc aataattgca aaataagcaa atgtatgaat gaaccattag atgctttgtg 300
ttgtatactt actacctgct gggcacattt atttaatcct catgacagcc cctgaagtag 360
gtgttacttt ttccatctta cagataaaga ctctgaggtt tggagaggtg aagtgatttg 420
atcaatgtca catggtagtg agtgaggcca agaatcatag tttcatttta ttcgagaagt 480
tggggggccag gtacctcggc cgcgaccag ctaagggcga attccagcac actggcggcc 540
gttactagtg gatccgagct cggtagcaag cttggcgtaa tcatggtcat agctgtttcc 600
tgtgtgaaat tgttatccgc tcacaattcc acacaacata cgagccggaa gcataaagtg 660
taaagcctgg ggtgcctaatt gagtgagcta actcacatta attgcgttgc gctcactgcc 720
cgcttttcag tcgggaaacc tgtcgtgcc gctgcattaa tgaatcggcc aacgcgccgg 780
gaaaagcngn ttgcgtattg gggcgctctt ncgctttctt gcn 823

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<210> 181

<211> 501

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature
 <222> (1)... (501)
 <223> n = A,T,C or G

<400> 181

cantatgacn	tgattcgcca	acttggtacc	ngctcggatc	cctagtaacg	gncgccattg	60
tnctggaatn	cgnccttagc	gtggtcgcgg	ccgaggtact	ttcttcnttt	nctnnaattt	120
tccataacct	agtgccngnt	tgatnccctc	acatggntgg	ttcacatncn	cngtacagan	180
gnccggnac	catggganag	ggcagcactc	ntnccctctn	angggatctt	ggcctaangg	240
tgtacnaagg	gagangatgg	antntcttct	gncctcncta	nggcctaggg	aaccacnag	300
canatccac	nacncttctn	atntttnagc	caaggagaag	ccccttggtg	acnttnagtt	360
ccaaccatta	tacncaagtgn	gagaatggat	nntcctgggc	ccaaccatta	caggggtgaag	420
atatnaacag	ttaaggaaga	tacagtttng	atgaggcctc	anganggagc	agntnacacc	480
atcatannca	tatgcaggga	a				501

<210> 182
 <211> 830
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (830)
 <223> n = A,T,C or G

<400> 182

ggcccttnga	ngcatgctcg	acggcgcgcca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tacacgagaa	gctccgagga	tggtggaagt	ccaacgtctc	120
tgatgcgggtg	gctcagagca	cccgtatcat	ttatggaggc	tctgtgactg	gggcaacctg	180
caaggagctg	gccagccagc	ctgatgtgga	tggtctcctt	gtgggtgggtg	cttccctcaa	240
gcccgaattc	gtggacatca	tcaatgccaa	acaatgagcc	ccatccatct	tccttaccct	300
tcctgccaag	ccagggacta	agcagcccag	aagcccagta	actgcccttt	ccctgcatat	360
gcttctgatg	gtgtcatctg	ctccttctctg	tggtctcatc	caaactgtat	cttccctttac	420
tgtttatatc	ttcacctgt	aatggttggg	accaggccaa	tccttctctc	acttactata	480
atggttgga	ctaaacgtca	ccaaggtggc	ttctccttgg	ctgagagatg	gaaggcgtgg	540
tggtatttgc	tcctgggttc	cctaggccct	agtgagggca	gaagagaaac	catcctctcc	600
cttctttacac	cgtgaggcca	agatccccctc	agaangcang	agtgttggcc	cttcccatgg	660
tgcccgtgcc	tcttgtgctg	ngtatgtgaa	ccaccccatg	tgagggaata	aacctggcac	720
tangtctttg	aaaaaaanaa	aaacntnaaa	aaaantccct	tcggccgnga	ccacgctaag	780
gnccaattcc	ancacaatgg	gcgnncgtna	ctantggatc	caaccttnt		830

<210> 183
 <211> 484
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (484)
 <223> n = A,T,C or G

<400> 183

ttgacatgat	acccaacttg	taccgagctc	ggatccacta	gtaacggccg	ccagtgtgct	60
ggaattcgcc	ctttcnagcg	gccgcccggg	caggtacccc	agcccggccc	actgagtttg	120
ccttctatcc	gggatatccg	ggaacctacc	agcctatggc	cagttacctg	gacgtgtctg	180
tggtgcagac	tctgggtgct	cctggagaac	cgcgacatga	ctccctgttg	cctgtgggca	240
gttaccagtc	ttgggtcttc	gctgggtggc	ggaacagcca	gatgtgttgc	cagggagaac	300
agaaccacc	angtcccttt	ttggaaggca	gcatttgcag	acttcaacgg	gcaaaacctc	360
tgacgcctgc	gccttctctc	gcggncgcag	aaaccatttc	gnactttaan	attgaatctt	420
ctctaagggt	ganaatttct	ggatcccttg	anaactttta	canntggnct	ttantcctt	480
taaa						484

<210> 184
<211> 824
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(824)
<223> n = A,T,C or G

<400> 184
ggccttagag ctgctcgacg gccgccatgt gatggatatt tgcagaattc gcccttagcg 60
tggctcgcggc cgaggtacca gattggccac tctagggttag aacaccaggt agattcctaa 120
ggttcctgac tccaggccct ggctcccagt tggcatctct ggacctactt ggggtcacag 180
tgaactcact gccctgaagg gaagatgcct ggctggatat gccacctgct gattggagag 240
tccttggacc ttgagtgaac acaggtggta gccaggcagt gatcatcata ggccttgggt 300
gagccccagt gctgtgttgg cttcaggtct gacacagagc tgtcccagtg gtagtcgcca 360
caggggtgct tgtgtcatca tcccttctcc agctccaggg agctcagcac agagacatag 420
tgtccatttg tttgagtga agtaaaagaa gagaacaaga gtctccacct agtaatccag 480
ggaattctcc cagatcttac ccaagacaac caaggcaaga gacacagcat tactgggctg 540
gaggtgcccc ctaatgcagg tatggctgca gtgaacaaag acttagatca caacacccaa 600
atcccttcta atagttggaa agccttncca agaaggatgc cggacaaaca agcccaaact 660
gtgaagacta caacaaatac ctaactcttt caatgcccag acactgaaga atatcccaa 720
ctttaagacc atccatgaaa acatgacctt accaacaagc taaataagac accagtgacc 780
aatcccagag agatagagat atgtgtcctt tcnnacagag aatt 824

<210> 185
<211> 499
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(499)
<223> n = A,T,C or G

<400> 185
cacttgacnt gatacgccaa cttgtaccga ctccgatcca ctagtaacgg ccgccagtgt 60
gctggaattc gcccttagcg tggctcgcggc cgaggtactt tttctttttt nttntatttt 120
tttttttctg tccccaaag ctttatctgt cttgactttt taaaaaagtt tgggggcaga 180
ttctgaattg gctaaaagac atgcattttt aaaactagca actcttattt ctttccttta 240
aaaatacata gcattaaatc ccaaactcta tttaaagccc tgacagcttg agaaggtcac 300
tactgcattt ataggacctt ctggtgggtc tgctgttacg tttgaagtct gacaatcctt 360
gagaatcttt gcatgcagag gaggtgaagag gtattggatt ttcacagagg aagaacacag 420
ccgcanaatg aagggccagg cttactgagc tgccaatgga gggctcatgg gtgggacatg 480
gnaaagaagg cacctagcc 499

<210> 186
<211> 504
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(504)
<223> n = A,T,C or G

<400> 186
cacttgacnt gatacgccaa cttggtaccg agctcggatc ctagtaacg gccgccagtg 60
tgctggaatt cgcccttagc gtggtcgcggc ccgaggtacc tcaggagggtc tgcaagtgtg 120
tggttaggta aaaactganc tgtgcaaact cactgtatcc aagctcttct catgagagag 180
cggacaacc tggcaagctt aaaggcaagt gttttcgttc ttttaattaa ataggctgtg 240

acaaaattaa caataaaact agcccagaac caaccagccc ggtaagtgtc gtgcaaactc 300
tgcagtaaca aaagaccatc tgagagacta cacgttggtc tccagtccta gcaagcgctc 360
cattctctnc acattcttat caattgtagc ttgacatggt atctccttgg cacattccat 420
aggaaaccag cctctttctn catctcgtag tcgntccccc ttataccagc catcgtgac 480
acgtttgata gatgaagacg acgt 504

<210> 187
<211> 822
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(822)
<223> n = A,T,C or G

<400> 187
gggcctctna gctgctcgn cggccgccatg tgatggatat ctgcagaatt cgccctttcg 60
agcggccgcc cgggcaggta cgcggggact gggtttttct cctttttag ccttttctt 120
tagtctctc ttcccgggtg ttggtaaaaa gaggtgaatt gacagcctat gttgaagaca 180
ctgtgctttt ctcaagaagg acatccaaac agcaagtcta cttctttctc tttaacgatg 240
tgctcattat caccaagaag aagagtgaag aaagttacaa cgtcaatgat tattccttaa 300
gagatcagct attggtggaa tcttggtgaca atgaagagct taattcttct ccaggggaaga 360
acagctccac aatgctctat tcaagacaga gctctgccag tcacctctt actctgacag 420
tccttagtaa ccacgcgaat gagaaagtgg agatgctact aggagctgag acgcagagcg 480
agcagagccc ctggataact gccctgggac acagcagcgg gaagccgcct gcagaccgaa 540
cctcactgac ccaggtggaa atcgttaggt catttactgc taagcagcca gatgaactct 600
ccctgcaggt ggctgacgtc gtcctcatct atcaacgtgt cagcgatggc tggatgagg 660
gggaacgact acgagatgga gaaagaagct ggtttcctat ggaatgtgcc aaggagataa 720
catgtcaagc tacaattgat aagaatgtgg agagaatggg accttgctag gactggagac 780
caacgtgtag tctctcaaan gnccttttgg actgcaagat tg 822

<210> 188
<211> 504
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(504)
<223> n = A,T,C or G

<400> 188
tatgancatg atacgccaac ttggtaccga gctcggatcc actagtaacg gcccgccagt 60
gtgctggaat tcgcccttag cgtgggtcgc gccgaggtac caaaaaagta aacattgata 120
atatggcctg acaacaatca gatatgctaa gctctagaag caaaagcaag gtaggattgc 180
ctccaaatgt tgacaggat tagccatacc acagtaacta gatctaattg gagggctaaa 240
tgccctggaga ggcagaaccc taaaggatgc ttagttatag ctccatgctg ccgccgagt 300
gcttgatgct ccattacacc ctccttggt ccaaccttcc attaaggctg aaggctctag 360
agggcagagt attcaagatg ttagatctgg tccaagccca aattctagag ttaaaagcag 420
aggggttctt agtggctgaa aaaaaacaaa acctgatgac atttgggact ccagttttga 480
ggaaaggctc tgatgatgag gctt 504

<210> 189
<211> 842
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(842)
<223> n = A,T,C or G

<400> 189

nnnnnnnnntt	tttgaaccgg	ccctntnang	catgctcgac	ggccgccatg	tgatggatat	60
ctgcagaatt	cgccctttcg	agcgcccgcc	cgggcaggta	cccttctcgc	ttttgccatt	120
agccaaggat	agaagctgca	gtgggtattaa	ttttgatata	atctttcaaa	ccagcttcat	180
gtggcttccc	ttttctttgt	tcaagatgag	ggccaggagg	ggaaacatca	cacctgccct	240
aaaccctggt	cctggaggtc	agcatttgat	ctgttgcaag	cccctctttc	tgccccctct	300
tcctaccctg	cctcccatga	ctttgctcct	cacacttttg	gaaccatgcc	ttccgggggg	360
gcccctctct	tctggcgcgc	cttgtctctg	ggccacttgg	agtgtgtgat	aaatcagtca	420
agctgttgaa	gtctcaggag	tctctggtag	cctgcagaag	taagcctcat	catcagagcc	480
tttctcaaaa	actggagtc	caaagtcat	caggttttgt	tttttttcag	ccactaagaa	540
cccctctgct	tttaactcta	gaatttgggc	ttggaccaga	tctaactct	tgaatactct	600
gcctcttaga	gccttcagcc	ttaatggaag	gttggatcca	aggaggggtg	aatggagcat	660
caagccactc	ggcggcagca	tggagctata	actaagcatc	ctttaggggt	ctgcctctcc	720
aggcatttag	cccctacatt	agatctagtt	actgtggtat	ggctaatacc	tgtcaacatt	780
tggaggcaat	cctaccttgc	ttttgcttct	agagcttagc	atatctgatg	gttgcaggcc	840
cg						842

<210> 190

<211> 503

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (503)

<223> n = A,T,C or G

<400> 190

actatgacct	gattacgcca	agcttggtac	cgagctcgga	tccttagtaa	cgcccgccag	60
tgtgctggaa	ttcgcccttt	cgagcggccg	cccgggcagg	taccatgctg	acttcttggg	120
atcttttaag	gcctaatttt	cccttccttg	agattactgt	agtgtgttcc	agctaatttc	180
tatttggaag	cgagttggaa	cagctgaaaa	ctagggtatta	ttgaaggcaa	agcagcctca	240
cgtcagtttt	ttatcagctc	atttggaag	tttttttttt	ttttttttta	ttaattagaa	300
agtaggctgg	acacgggtgg	tcatgcctat	aatcccagca	cttggggagg	ccgaggatct	360
cctctctggg	ggatcacttg	agggcaggag	ttaagagacc	atcctggcca	acatgatgaa	420
accctgtctc	tactaaaaat	acaaaaagta	hctgggcgtg	gtggcatact	cttacaatcc	480
cagctacttg	ggaggctgag	gca				503

<210> 191

<211> 829

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (829)

<223> n = A,T,C or G

<400> 191

gggcctctga	gcatgctcga	cgcccgccat	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggctcgc	gcccagggtac	tttttttttt	tcttttttta	catctgattt	taatgcttcg	120
tttaactcaa	aaggaactgg	tagagttcag	aagggtgagct	gttgtttttc	taaacctctt	180
cccaggaagg	ggacattgac	acttgaattt	ttgtcacctt	tttctcatt	agaaggaaag	240
tagaaagcct	tactgtagga	tttttaaaaa	aaaatccatc	tcaccccata	ttggtcttaa	300
ataagtatag	actaattaac	ctaagctacc	tttaacaacg	tagaatttag	atgggttcat	360
atatgtgaga	aaaacctgaa	tataggacag	gggtcctact	tttttcccc	cctctgtcgc	420
ccaggctaga	gtatagtggg	gtgatcttgg	cccactgcaa	cctctgcttc	ctaggttcaa	480
gtgattctcc	tgccctcagcc	tcccaagtag	ctgggattgt	aagagtatgc	caccacgccc	540
agctactttt	tgtattttta	gtagagacag	ggtttcatca	tgttggccag	gatggtctct	600
taactcctgc	cctcaagtga	tccaccagag	aggagatcct	cggcctnccc	aagtgtctgg	660
attataggca	tgagccaccg	tgtccagcct	actttctaat	taattaaaaa	aaaaaaaaaa	720

aaactttcca aatgagctga taaaaaactg acgtgaggct gctttgcctt caataatacc 780
tagttttcag ctgtccaact cgtttccaaa tagaaattaa gctgggang 829

<210> 192

<211> 503

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (503)

<223> n = A,T,C or G

<400> 192

ntatgaccat	gattacgcca	agcttggtac	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgcccgggca	ggtactgcct	ttgggcttct	120
tctctctcct	gttttctcct	ctcgaattct	ttactgtttt	aatacattgt	tcttctggct	180
gaggctggtc	aaagctacac	tgatcttcaa	ataaaggctc	gtcaatgcta	cactgttctt	240
caagcaacgg	ctgggtgaact	tggtctgaca	aaggatggtc	gacttttctt	gcttgcttcc	300
tatgtctttc	ctcttcagct	aaatagagat	gtttcagatt	atctgggtat	cgatctgtga	360
attgagattc	cagtgcggtt	tgagccttct	tttcttcccg	tagcaatttc	ttgtaacttt	420
gctgtatttt	cagttttctt	cgaaaagcaa	agccttgctc	ctcgcaacg	ctccccacga	480
agcttgcggg	tggttaggcc	gca				503

<210> 193

<211> 834

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (834)

<223> n = A,T,C or G

<400> 193

ancggctctc	tagagctgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtgggc	gcggnccgag	gtacaattca	ttatgtgttt	cattaattac	ctttattaaa	120
aacaacacaa	ttatattaca	atagggacaa	aaaatgttta	agcaaatgaa	aacgaaacca	180
tgacataccc	aaactcagga	ggaggcaaca	aaggcagtc	taaagggaag	cttacagctc	240
cagatgctta	aattaaaaag	aagaaagatc	tcaaaccat	gctaaagggg	agcttacagc	300
tacagatcct	taaattaaaa	agaagaaaga	tctcaaacc	atgctaaagg	gaagcttaca	360
gctgcagatg	cttaaatata	aaagaagaaa	gatctgaaac	ccttgctaaa	gggaagctta	420
tagctgcagg	tgcttaaat	aaaaagaaga	aagatctcaa	atcaataacc	taacattaca	480
cctgaagggg	gggaaaaaaa	ctaatagaca	accaagcaaa	aggaagaaaa	taacagatta	540
gagcagagat	aagcagaata	agaccagaaa	aaaggaaaaa	aacactgagt	ttgttttttt	600
aaagatcaat	aaaaatttta	aaactcacag	ctatattaag	aaaaaagaga	aatctcaaat	660
actaaaatca	taagtaaaag	angtgacagt	acaggaataa	gaatgtgaga	cagaagacat	720
ggcggcctac	cacccgcaag	ccttcgtggg	gagcgttcgc	ganggacaag	gctttgcttt	780
tcgaagaaaa	ctgaaaatnc	cgcaaagtcc	cagaaattgt	tcngaagaaa	agaa	834

<210> 194

<211> 502

<212> DNA

<213> Homo Sapien

<400> 194

cacttgacct	gattcgccaa	gcttggtacc	gagctcggat	ccctagtaac	ggccgccagt	60
gtgctggaat	tcgccctttc	gagcggccgc	ccgggcagga	cgetgaggcc	tgaggagtctc	120
ttgactccac	tacttaattc	cgtttagtga	gaaacctttc	aattttcttt	tattagaagg	180
gccagcttac	tggttggtgc	aaaattgcc	acataagtta	atagaaagtt	ggccaatttc	240
accccathtt	ctgtggtttg	ggctccacat	tgcaatgttc	aatgccacgt	gctgctgaca	300
ccgaccggag	tacctcggcc	gcgaccacgc	taagggcgaa	ttctgcagat	atccatcaca	360

ctggcgcccg	ctcgagcatg	catctagagg	gcccaattcg	ccctatagtg	agtcgtatta	420
caattcactg	gccgtcgttt	tacaacgtcg	tgactgggaa	aaccctggcg	ttaccaact	480
taatcgctt	gcagcacatc	cc				502

<210> 195

<211> 848

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(848)

<223> n = A,T,C or G

<400> 195

gnnnnnnntt	tnnaatgggc	ctctnnagca	tgtctgagcg	gccgccatgt	gatggatata	60
tgcagaattc	gcccttagcg	tggtcgcggc	cgaggctactc	cggtcggtgt	cagcagcacg	120
tggcattgaa	cattgcaatg	tggagcccaa	accacagaaa	atggggtgaa	attggccaac	180
tttctattaa	cttatgttgg	caatttttgc	accaacagta	agctggccct	tctaataaaa	240
gaaaattgaa	aggtttctca	ctaaacggaa	ttaagtagtg	gagtcaagag	actcccaggc	300
ctcagcgctc	tgcccgggcg	gccgctcgaa	agggcggaatt	ccagcacact	ggcgggcggt	360
actagtggat	ccgagctcgg	taccaagctt	ggcgtaataca	tggtcatagc	tgtttctctgt	420
gtgaaattgt	tatccgctca	caattccaca	caacatacga	gccggaagca	taaagtgtaa	480
agcctggggg	gcctaattgag	tgagctaact	cacattaatt	gcgttgcgct	cactgcccgc	540
tttccagtcg	ggaaacctgt	cgtgccagct	gcattaatga	atcgccaac	gcgcggggag	600
aggcggtttg	cgtattgggc	gctcttcgcg	ttctctcgctc	actgactcgc	tgcgctcggt	660
cgttcgctg	cggcgagcgg	tatcagctca	ctcaaaggcg	gtaataccgg	tattcacaga	720
attcagggga	taacgcagga	aagaacatgt	gagcaaaagg	ncagccaaag	gccaggaacc	780
cgtnaaaagg	ccgcgttgct	ggcgttnttc	cataggctcc	gcccccttga	cgagcatnac	840
aaaaatct						848

<210> 196

<211> 511

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(511)

<223> n = A,T,C or G

<400> 196

canntatgac	ctgattacgc	caagcttggt	accgagctcg	gatccactag	taacggccgc	60
cagtgtgctg	gaattcgccc	ttagcgtggg	cgcgggccgag	gtactttttt	tttttttttt	120
tttttttttt	ttttagggtt	ataaaagccc	ttttataaag	ccatttttaa	acaaaacaaa	180
aaaaaagttt	acaaaagaaa	aaaagatnca	gaaaaagaat	aacttgcttc	atatgtccca	240
aaaagagaaa	aaaataaagg	ggacaatgcc	aacatgctca	acaataaagg	cttctttttc	300
ttattttttt	aatacaaaat	ncaagcaaag	gatacacata	cttaaaacag	agctcaggag	360
canacacgca	ntcctggaaa	cccttcaata	aaancaaagc	aggagtttgn	tttttctttg	420
tctatgcana	tacatacaga	gactgggata	tgtaaaaatt	aagtatnaca	aaagaccatt	480
acacgattct	accaatgcat	gttgcatctn	g			511

<210> 197

<211> 816

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(816)

<223> n = A,T,C or G

<400> 197

gggcctctag	agcatgctcg	acggccgcca	tgtgatggat	atctgcagaa	ttcgcctttt	60
cgagcggccg	cccgggcagg	tactaaggaa	gttaaagttt	gaatgtaacc	actttattta	120
aaagggtttt	ttctttaatt	taaataaagt	ggggttgaag	tgaacatgat	tttgttgacc	180
atgttcgtga	attacagatg	caacatgcat	tggtagaatc	gtgtgatggg	cttttgtgat	240
acttaatttt	tacatatccc	agtctctgta	tgtatctgca	tagacaaaga	aaaaaacaac	300
tcctgctttg	cttttattga	agggtttcca	ggactgcgtg	tctgctcctg	agctctgttt	360
taagtatgtg	tatcctttgc	ttgtattttg	tattaaaaaa	ataagaaaaa	gaagccttta	420
ttgttgagca	tgttggcatt	gtccccctta	tttttttctc	tttttgggac	atatgaagca	480
agttattctt	tttctgtatc	tttttttctt	ttgtaaaact	tttttttggt	ttgtttaaaa	540
atggctttat	aaaagggttt	ttataaccct	aaaaaaaaaa	aannnnnnna	aaaaaaaaaa	600
gtcctcggcc	gcgaccacgc	taagggcgaa	tccagcaca	ctggcggncg	ttactagtgg	660
atccgagctc	ggaccaagct	tggcgtaatc	atggncatag	ctgttcctgt	gtgaaatggt	720
atccgctcac	aattcccaca	catacaaccc	ggagcataaa	gtgtaaacct	gggggtgccta	780
atgagtgagc	tactcaataa	ttgcgttgcg	ctcang			816

<210> 198

<211> 498

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(498)

<223> n = A,T,C or G

<400> 198

tgattcgcca	agcttggtag	cgagctcgga	tccactagta	acggcccgcc	agtgtgctgg	60
aattcgccct	tcgagcggnc	gnccgggcag	gtacaattca	gagcagggtg	ccatagaaac	120
aactaggntt	gaaaaaactg	taagacaatt	cacagttgaa	atcaaaccac	cactgtgaat	180
gtgttaaata	cttgccatat	aacaacactt	taacattgat	cttgctaaat	aaggctatga	240
ttcataagat	gcatggattt	ccaaagctgn	ttaacattct	tataaattaa	ttcacaggat	300
tcaaatagtt	gcttttttag	ttcaactggg	tatttagcaaa	aatnatacaa	aatgatcccc	360
gtgcaagcac	aaatttacct	tccttctaaa	taaaacatga	cagattatat	tacaacttga	420
tagcctctct	tttaaaaagt	ctgtgacatt	attaaagagg	tgacggaatg	cttgntttgc	480
aaaccccaac	acatcttt					498

<210> 199

<211> 837

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(837)

<223> n = A,T,C or G

<400> 199

nnnnnnntnn	cantgggcct	ctagagctgc	tcgacggccg	ccatgtgatg	gatatctgca	60
gaattcgccc	ttagcctggg	cgcgcccgag	gtaccttgag	atctgagcaa	ctgtgttaat	120
gaagtaatag	caatggtcca	cagtgaagaa	tgtgttgggg	tttgcaaaac	aagcattccg	180
tcacctcttt	aataatgtca	cagacttttt	aaaagagagg	ctatcaagtt	gtaataaat	240
ctgtcatggt	ttattttagg	aggaaggtaa	atttgtgctt	gcacggggat	cattttgtat	300
tatttttgc	aatacccagt	tgaagctaaa	aagcaactat	ttgaatcctg	tgaattaatt	360
tataagaatg	ttaaacagct	ttggaaatac	atgcatctta	tgaatcatag	ccttatttag	420
caagatcaat	gttaaagtgt	tggtatatgg	caagtattta	acacattcac	agtgtttggt	480
tgatttcaac	tgtgaattgt	cttacagttt	tttcaaacct	agttgtttct	atggacacct	540
gctctgaatt	gtacctgccc	ggcgcccgcc	tcgaagggcg	aattccagca	cactggcgcc	600
cgttactagt	ggatccgagc	tcggtaccaa	gcttggcgta	atcatgggtc	tagctgnntc	660
ctgtgtgaaa	ttggtatccc	gtcaccaatt	ccacacaaca	tacgagccgg	aagcataaag	720
tgtaaagcct	ggggtgccta	atgagtgagc	taactccatt	aattgcgttg	cgctcactgg	780
cccgttttnc	agtcnggaaa	cctgtctgcc	anctgcatta	atgaatcgcc	caccccg	837

<210> 200
 <211> 506
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (506)
 <223> n = A,T,C or G

<400> 200
 nnnnttgacc tgattacgcc aagcttggtg ccgagctcgg atccactagt aacggccgcc 60
 agtgtgctgg aattcgccct tagcgtgggc gcggccgagg tactgcatcc ataatttacc 120
 gccatgtgca acagctttgc gttttctaag gcacaatttt taatgaaatg atgtgtagat 180
 ttcaatctaa taacagctca tccaaatgac aaatatgggc gaaatccctc cagtggctga 240
 ggaaatttct gcacctatat ggaaccacaca tgcaaagaac ccatctagca tgtaataaat 300
 aatcgctagc catactcaat aagacacgga aaaattattg cttacataac agaaaaacat 360
 ctacttgacc cccttttatg actacatcaa tctattagga gtgtatccat agtctacatt 420
 cacaaaatgt catcttgact tatttgccat tgatttaagg cagaataaat agtccccctt 480
 tccccagtct taacaacaaa aaacaa 506

<210> 201
 <211> 864
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (864)
 <223> n = A,T,C or G

<400> 201
 ccnntanagc atgctcgacg gccgcccggg caggtagcctt ggaagttatg tcattaatat 60
 aggctgggtc atcaaataaa gcaaaacctt gcaatatcag ctgattttac actccgggac 120
 gttgccc aaa ggtaggaaga aagcaggggg aaatatattca gtcattcattt ccaaagtcatt 180
 tatcaaaatc tgtgaggaag tttaattctt caaagagtca atgtcagaca tcaggcctct 240
 gttgcctgct tctctcgagg cactagatta ggagtccttca ataagagact taacatgagg 300
 tatatggaag atgaggcacc gagataagtt catcattagg tgtgagcact gctcaccctt 360
 gctggcaagt tctccttaag ggcctgaagc acagggtgtcc aaagaaaagc gtttaagtcca 420
 tcttaataga atctatgtgg tatatgatgt ggtcagcccc tggctctgtga tcagcaagaa 480
 cctacagcac agattatgcc ctgcccactt caatgaatac ctactctcct ncattctcca 540
 tcactttttt gctatcaaga ctccggacct tgcccatgga gaagtttaga gaggaactct 600
 tgtggagagc tgggttaattt tctgccctgt gcgacaagtt tcaacttggc caagaaangg 660
 agtcaagtta ttaaaaagca tcacaatgta gaattctcca ggctggggtt tttggntttt 720
 tnggtgggtn aanactgggg gnaaaagggg ggacctattt aaattccngg cctttaaaat 780
 caaatgggcc aaaattaagt tcaaggaatg gaccattttt nggggnaaat ggttngaacc 840
 ttntngggan ttccncctt ccct 864

<210> 202
 <211> 505
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)... (505)
 <223> n = A,T,C or G

<400> 202
 gnnntnanacn nttactaat antganttag tnccgactcg atccctctna ctncantnan 60
 ancngntngaa ttgcccttnn tagcggccnt ccngncagg tacaaccagtt tggaaaacag 120

tntcacagtt	tttttaaaaa	ttacatatac	aaccancaac	tgaccagcc	atttcactcc	180
taggtattta	cccaagatna	actgaagtgt	agatacaagc	anagacttgn	gcacaagtgt	240
tcatggtaag	ctttactngc	antagctcca	aactanggac	aactcaaata	gccaacangg	300
aaatggacaa	attatgttac	tttcatacag	tggaaatattc	tcttgtgata	aaaataantg	360
aacanttgat	acatggatga	atctcaaaat	aattatgctg	agtaaaagaa	gccagacaaa	420
atgtacagtg	catacagcta	ttcatgtggg	tgccagctcc	atccccagct	gacctcttca	480
tacggncaga	gggtggcatg	gcanc				505

<210> 203

<211> 819

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (819)

<223> n = A,T,C or G

<400> 203

ggcctcngca	gcattgctga	ncggccgcca	tgtgatggat	atctgcagaa	ttcgccctta	60
gcgtggctgc	ggccgaggtg	cgcgggagag	caggaccgga	gcgcgggcca	agctggagat	120
ggatgatgct	gaccctgagg	aaagaaaacta	tgacaacatg	ctgaaaatgc	tgctcagatct	180
gaataaggac	ttggaaaagc	tattagaaga	gatggagaaa	atctcagtgc	aggcgacctg	240
gatggcctat	gacatgggtg	tgatgcgcac	caaccctacg	ctggccgatt	ccatgcgtcg	300
gctggaggat	gccttcgtca	actgcaagga	ggagatggag	aagaactggc	aagagctgct	360
gcatgagacc	aagcaaaggc	tgtaggcccc	actggccccac	cacagctgcc	atgccaccct	420
ctgcccgtat	gaagaggtca	ctgggggatg	gagctggcac	ccacatgaat	agctgtatgc	480
actgtacatt	ttgtctggct	tcttttactc	agcataatta	ttttgagatt	catccatgta	540
tcaattgttc	acttattttt	atcacaagag	aatattccac	tgtatgaaag	taacataatt	600
tgtccatttc	cctgttggct	atttgagttg	tccctagttt	ggagctattg	cgagtaaagc	660
taccatgaac	atttgtgcac	aagtccttgc	ttgtatctac	acttcagttt	atcttgggta	720
aatacctang	agtgaatgg	cttgggtcaa	tntgttgggt	ggatatgtaa	ttttttaaaa	780
aaaactngna	tactgttttc	caaactgggt	tgtccctct			819

<210> 204

<211> 840

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (840)

<223> n = A,T,C or G

<400> 204

gnnnnntttt	nnctnntgga	accctgtttt	nnaagctgct	cgacggccgc	catgtgatgg	60
atatctgcag	aattgcacct	tagcgtgggt	gcggccgagg	taccttnaga	tctgagcaac	120
tgtgttaaat	aagtaatagc	aatgggtccac	agtgaagat	gtgttggggg	ttgcaaaaaca	180
agcattccgt	cacctcttta	ataatgtcac	agactttttt	aaaagagagg	ctatcaagtt	240
gtaataataat	ctgtcatggt	ttatttagga	aggaaggtaa	atttgtgctt	gcacggggat	300
catttttgat	tatttttgct	aatacccagt	tgaagctaaa	aagcaactat	tgaatcctg	360
tgaattaatt	tataagaatg	ttaaacagct	ttggaaatac	atgcatctta	ttgaatcatag	420
ccttatttag	caagatcaat	gttaaagtgt	tgttatatgg	caagtattta	acacattcac	480
agtgtttgtt	tgatttcaac	tgtgaattgt	cttacagttt	tttcaaacct	agttgtttct	540
atggacacct	gctctgaatt	gtacccctca	gtcaccagca	aaagcatttc	cacccttttc	600
aacccccaat	cagaccactg	cattcagtg	tattggagga	ctttcatcac	agcttccagt	660
aggtgggtct	tggcacaggc	agnctgactg	gtatangaac	tggtgctctt	ggactccctg	720
cagtgaataa	cgaccctttt	gtacctgccc	gggcggccgc	taagggcgaa	ttccacacac	780
tggccggccg	ttactagtng	gatccnaact	cggctccaaan	cttggcgtat	tcatggctnt	840

<210> 205

<211> 497

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (497)

<223> n = A,T,C or G

<400> 205

```

nnmnttgacc tgattacgcc aagcttggtg ccgagctcgg atccactagt aacggccgcc      60
agtgtgctgg aattcgccct tagcgtgggc gcggccgagg tacatttact ataaaagctg      120
ttgcatttta gacaacttgt tgtttttatt ttttactggt tctcagaggc attttagaat      180
aaatacttta aatgaaagtt agtataaccg atatagaaca ctggcccacc cagagcagta      240
acatcttttg gacggactca catatgaggt ggatcatttc agtttggtta atcttacact      300
gtgtatagat aactataata tgtattgcat taatcacact acatagaaag gaaatgtcat      360
ggaagtgcgc tagtgaaaaa caaaaagtta cccattatgt ttattaaaga gtagggacta      420
gcttttggag tatgagaaaa aaaatcagat atacttcctc aggaacaata aatcactcac      480
ttgcctcacc tgttttt

```

<210> 206

<211> 820

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (820)

<223> n = A,T,C or G

<400> 206

```

gggcctntag aagcatgctc gagcggccgc cagtgtgatg gatatctgca gaattcgccc      60
tttcgagcgg ccgcccgggc aggtacatgt attgaagcta gaatcgagtc aagaaaaata      120
aagccccatt ctccaactgc aaaatgtgct ttcccataat gaacactagt caccagcaca      180
gaataatctc caacattttc taaattctaa ttgccaaactg tttctatcta tatttgattt      240
atatttcatt tggagctctg tacatggcag cttaggcaga ctagatcttg ttttttccaa      300
tgcagcataa tgagtatgat ctatttcttt tcaaataatc tttgagatcc caggaaaaaa      360
aatgctctgc tccattgagc tataatgtaa atgtgtttgt ttaaaaaaca ggtgaggcaa      420
gtgagtgatt tattgttcct gaggaagtat atctgatttt ttttctcata ctccaaaagc      480
tagtccctac tctttaataa aaataatggg taactttttg tttttcacta gcgaacttcc      540
atgacatttc ctttctatgt agtgtgatta atgcaatata tattatagtt atctatacac      600
agtgtgaagat ttaacaaact gaaatgatcc acctcatatg tgagtccgtc caaaagatgt      660
tactgctctg ggtgggcccag tgttctatat cgggtatact aactttcatt taaagtattt      720
attctaaaat gcctctgaga aacagtaaaa ataaaaacca caagttgcta aaatgcaaca      780
gcttttatag taaatgtcct tgggcgcgca ccacgcttag      820

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<210> 207

<211> 496

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (496)

<223> n = A,T,C or G

<400> 207

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cnnttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca      60
gtgtgctgga attcgccctt agcgtggctg cggcccaggg tacaaaagac aaaatcagag      120
ttcaatttca gcagcaagac ttatcaagaa tttaatcact atttgacatc aatggttggg      180
tgctgtgga cgtccaaacc ctttgggaaa ggaatatata ttgacctga aatcctagaa      240
aaaactggag tggtgaata taaaaacagt ttaaatgtag tccatcatcc ttctttcttg      300
agttacgctg tttccttttt gctacaggaa agcccagaag aaaggacagt aaatgtgagc      360

```

tctattcngg gaaagaaatg gagctggtat ttggactatt tattttcaca ngggttacaa 420
ggcttgaac tttttataag aagtagtggt catcattctt ncattcccag agcagaaggc 480
ataaactgca caatca 496

<210> 208
<211> 810
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (810)
<223> n = A,T,C or G

<400> 208
gcatgctcga cggcccgcca gtgtgatgga tatctgcaga aattcgccct ttcgagcggc 60
cgcccgggca ggtactcctt gaggatggca gtctgtcagt gaaatgaaaa tgggaactca 120
agatgagcca ctttgctcta gcaatgagga gtgagtttag tccagtgtgt tcagtttatg 180
tcaacattca tttaatattg attgttgca tttatgccct ctgctctggg aatggaagaa 240
tgatgaacac tacttcttat aaaaagtttc aagccttgta acccctgtga aaataaatag 300
tccaaatacc agctccattt ctttccccga atagagctca catttactgt cttttcttct 360
gggcttttct gtagcaaaaa ggaaacagcg taactcaaga aagaaggatg atggactaca 420
tttaaaactgt ttttatattc agccactcca gttttttcta ggatttcagg gtcaatatat 480
attcctttcc caaaggggtt ggacgtccac aggcaaccaa ccattgatgt caaatagtga 540
ttaaattctt gataagtctt gctgctgaaa ttgaactctg attttgtctt ttgtacctcg 600
gccgcgacca cgctaagggc gaattccagc acactggcgg ccggtactag tggatccgag 660
ctcgggtccaa gcttggcgta atcatgggca tagctgttcc ctgggtgtgaa attgntatcc 720
gctcacaatt ccacacaaca tacgaaccgg aagcattaag tgtaaagcct ggggtgccta 780
atgagtgagc taacttacat taattgcgnt 810

<210> 209
<211> 495
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (495)
<223> n = A,T,C or G

<400> 209
cnnttgacct gattacgcca agcttggtac cgagctcgga tccctagtaa cggccgcccag 60
tgtgctggaa ttgcgcctta gcgtggctgc ggccgaggta caactctcca gggcacaata 120
cgtttacagc tgccctttct tcacatactt ttctaattca gaactactca caattctaag 180
caaattccca ttcacgaagt ctgtccataa tgcgaccttc tcttttttta acatatacat 240
cttaaaaaac aaatatataa aaaattctta ttttgctgga atgctttcaa tttttcacat 300
tttacatgat catcacattt atttcttata ttgaaaggca tgggtttctgt tgacatgtcg 360
tgcaaagcca aaaaaaaaaa anaaaaaaaaa aagggctgga ttgcttttca attggtctaa 420
cacttttctt tgtctaggct ttggatttta aagttcatga cagccccacc accagtagaa 480
acccaaggc ttgca 495

<210> 210
<211> 820
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (820)
<223> n = A,T,C or G

<400> 210

gggcctcaga	gctgctcgan	cgcccgccat	gtgatggata	tctgcagaat	tgcgccttfc	60
gagcggccgc	ccgggcaggt	acccacgttt	tgctccacac	tccttgaccg	caggggctcg	120
gacacaaacc	cctgtcacca	ggagagtcag	tcagcactac	ttgggagggc	taaagggaaa	180
tttgaaata	aaattccaaa	gtttggagta	aaaaaattca	agtgttgatt	ttatattctt	240
tccctttctg	acacagccta	aagcgtaggg	ggaacatgtg	tttatctgtg	ggagataaac	300
aagatggagt	cccaaagact	ttaacaaaat	atTTTTTTaa	aaatccacta	gaatagaaaa	360
tacattattt	agataactt	tatgctgaga	gtgagtatat	atgcttgctc	tatttaaact	420
tgtgagaaaa	agtggatatcc	cttgatacat	ttagaaatat	gggggctatc	ttgtttcatt	480
gtgggggtgg	ggcagaagga	gaataaatgc	aggatgaccc	tgttgaagga	atcttancat	540
ggccaacagg	ggacgtttcc	agtcgattac	caggaaatgc	aagccttggg	gtttctactg	600
gtggtggggc	tgcatgaac	tttaaaatcc	aaagcctaga	caaggaaaag	tgtagacca	660
attgaaaagc	aatccagccc	tttttttttt	nnnttttttt	tttggctttg	cacgacatgt	720
caacagaaac	catgcctttc	aatntaagga	aataaatgtg	atgatcatgt	aaaatgtgaa	780
aaattgaaag	cattncacca	aataaggaat	tttttatttn			820

<210> 211

<211> 499

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(499)

<223> n = A,T,C or G

<400> 211

canttactg	attacgcaa	gcttggtacc	gagctcggat	ccactagtaa	cgcccgccag	60
tgtgctggaa	ttcgccctta	gcgtggctgc	ggcccgaggt	acaactctcc	agggcacaat	120
acgtttacag	ctgcctttcc	ttcacatact	tttctaattc	agaactactc	acaattctaa	180
gcaaattccc	attcaggaag	tctgtccata	atgogacctt	ctcttttttt	aacatataca	240
tcttaaaaaa	caaatatata	aaaaattctt	attttgcctg	aatgctttca	atttttcaca	300
ttttacatga	tcatacatt	tatttcttat	attgaaaggc	atgggtttctg	ttgacatgtc	360
gtgcaaagcc	aaaaaaaaaa	aaaaaaaaaa	aagggctgga	ttgcttttca	atnggggtcta	420
acacttttcc	ttgtctaggg	tttggtattt	aaagttcatg	acagccccac	caccagtaga	480
aaccccaagg	cttgcatTT					499

<210> 212

<211> 821

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(821)

<223> n = A,T,C or G

<400> 212

gggcccntan	agcatgctcg	agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcggcc	gcccgggcag	gtacccacgt	tttgetccac	actccttgac	cgcaggggct	120
cggacacaaa	cccctgtcac	caggagagtc	agtcagcact	acttgggagg	gctaaagggg	180
aattttggaaa	taaaattcca	aagtttgag	taaaaaaatt	caagtgttga	ttttatattc	240
tttccctttc	tgacacagcc	taaagcgtag	ggggaacatg	tgtttatctg	tgggagataa	300
acaagatgga	gtcccaaaga	ctttaacaaa	atattttttt	aaaaatccac	tagaatagaa	360
aatacattat	ttagatatac	tttatgctga	gagtgaat	atatgcttgt	cctattttaa	420
cttgtgagaa	aaagtgttat	cccttgatac	atttagaaat	atgggggcta	tcttgtttca	480
ttgtgggggt	ggggcagaag	gagaataaat	gcaggatgac	cctgttgaag	gaatcttagc	540
atggccaaca	ggggacgttt	ccagtcgatt	accaggaaat	gcaagccttg	gggtttctac	600
tggtggtggg	gctgtcatga	actttaaaat	ccaaagccta	gacaaggaaa	agtgttagac	660
caattgaaaa	gcaatccagc	cctttttttt	tttttttttt	ttggctttgc	acgacattgt	720
taacagaaac	catgcctttc	aatattagaa	ataaatgtga	tgatcatgtt	aaatgtgaaa	780
aattggaagc	cttcagcaaa	ataagaattt	ttattntttt	n		821

<210> 213
 <211> 497
 <212> DNA
 <213> Homo Sapien

<400> 213
 acttgacctg attacgcca gcttggtacc gagctcggat ccactagtaa cggccgccag 60
 tgtgctggaa ttccgccctta gcgtgggtcgc ggccgaggta caaaacaata gtctaaacta 120
 acacgaactg ttacctgggc tattaagga tacacggat ccactaaaca gacagatcct 180
 tatttccctg cttgatgttg caaagccctt ggcaaccagg ggcaaaggtc actgggggtt 240
 gactaactgg ggctgagtg cagctatgac tgtccttcag atttttgagt tgtttttgaa 300
 attaaaagct tctaaaagtt gcatcaacat cctcctaagc ccccatagga ttgtaacacc 360
 accacaaaag gccaccaaca ctttttaaac aaagtgaata ctgtctgaca ccaatcatct 420
 tgaaaactcc atggcaagtg cattagctat gatttcatca cttacaggta gagaagctta 480
 ctgtctactg gtgtggg 497

<210> 214
 <211> 817
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc feature
 <222> (1)...(817)
 <223> n = A,T,C or G

<400> 214
 ggccttanag ctgctcgneg gccgccatgt gatggatata tgcagaattc gccctttcga 60
 gcggccgccc gggcaggtag tctcagtcac atgcagaaat actttttttt taattaatag 120
 ttacaggcctt gttggtccag tgggatttgg gtagggggag aaagatacct tctaaaatgg 180
 atcaatagaa ccaaaataat acagcatgtt ctataaccac aaggaaatca aatgatcctg 240
 tcatgattcc agttagtcac aaccatgtta gcagtgtctaa atgcatttta gaaatgggtga 300
 cttctgtggt tttcctagca tttgtctcta acaaagggtg aaataattac tcatggccct 360
 ctctgccatt gtctttcatt ttttcacagt gaaatttagac ccctttactt caccattctg 420
 ccactgcaaa ttaagtataa agaaaatagc aagagtgtcc acaccagtag acagtaagct 480
 tctctacctg taagtgtatga aatcatagct aatgcacttg ccattggagt ttcaagatga 540
 ttggtgtcag acagttttca ctttgtttta aaagtgttgg tggccttttg tgggtggtgt 600
 acaatcctat gggggccttan gaggatgttg atgcaacttt tagaagcttt taatttcaaa 660
 aacaactcaa aaatctgaag gacagtcata gctgccactc agccccagtt agtcaaacc 720
 cagtgaactt tgcccctggt tgccaagggc tttgcaacat caagcangga aataaggatc 780
 tgnctgttag tgggataacc ggtatccttt aatagac 817

<210> 215
 <211> 495
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc feature
 <222> (1)...(495)
 <223> n = A,T,C or G

<400> 215
 acttgacctg attacgcca gcttggtacc gagctcggat ccactagtaa cggccgccag 60
 tgtgctggaa ttccgccctta gcgtgggtcgc gccgaggtag catgctgact tcttgggtatc 120
 ttttaaggcc taattttccc ttccttgaga ttactgtagt gtgttccagc taatttctat 180
 ttggaaacga gttggaacag ctgaaaacta ggtattattg aaggcaaagc agcctcacgt 240
 cagtttttta tcagctcatt tgggaagttt tttttttttt aattagaaag 300
 taggctgggc acggtggctc atgcctataa tcccagcact tggggaggcc gaggatctcc 360
 tctctggttg atcacttgag ggcaggagtt aagagaccat cctggccaac atgatgaaac 420
 cctgtctcta ctaaaaatac aaaaagtagc tgggcgtggt ggcatactct tacaatccca 480
 gctacttggt aggcn 495

<210> 216
 <211> 823
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(823)
 <223> n = A,T,C or G

<400> 216
 gggcctcaga gcatgctcgn cggccgccag tgtgatggat atctgcagaa ttcgcccttt 60
 cgagcgggccc cccggggcagg tacttttttt tcttttttta catctgattt taatgcttcg 120
 ttaacttcaa aaggaactgg tagagttcag aaggtgagct gttgtttttc taaacctctt 180
 cccaggaagg ggacattgac acttgaattt ttgtcacctt ttctctcatt agaaggaaaag 240
 tagaaaagcct tactgttaga tttttaaaaa aaaatccatc tcaccccata ttggtcttaa 300
 ataagtatag actaattaac ctaagctacc ttaacaacg tagaatttag atgggttcat 360
 atatgtgaga aaaactgaa tataggacag gggctctact tttttcccca cctctgtcgc 420
 ccaggctaga gtatagtggg gtgatcttgg cccactgcaa cctctgcttc ctaggttcaa 480
 gtgattctcc tgctctcagcc tcccaagtag ctgggattgt aagagtatgc caccacgccc 540
 agctactttt tgtattttta gtagagacag ggtttcatca tgttggccag gatggtctct 600
 taactcctgc cctcaagtga tccaccagag aggagatcct cggcctnccc aagtgtctggg 660
 attataggca tgagccaccc gtgcccagcc tactttctaa ttaattaaaa aaaaaaaaaa 720
 aaaaacttnc caaatgagct gatnaaaaac tgacgtgang ctgctttgcc ttcaataata 780
 cctagttttc actggtccaa ctggtttcca aatagaaatt acg 823

<210> 217
 <211> 827
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(827)
 <223> n = A,T,C or G

<400> 217
 nnnnnnnggc ctntnnagca tgctcgacgg ccgccatgtg atggatatct gcagaattcg 60
 ccttttcgag cggccgcccg ggcaggact gtatcattgg cagatgtgac gtcaccgaca 120
 accagagtga agtggcggac aaaactgagg attacctgtg gctgaagttg aaccaagtgt 180
 gttttgacga cgatggcacc agctccccac aagacaggct cactctctca cagttccaga 240
 agcagttgtt ggaagactat ggcgagtccc actttacggg gaaccagcaa ccttccctct 300
 acttccaagt cctgttctcg acagcgagc ttgaagcagc agttgccttt cttttccgca 360
 tggagcggct gcgctgccat gctgtccatg tagcactggg gctgtttgag ctgaagctgc 420
 ttttaaagtc ctctggacag agtgtcagc tctcagcca cagcctggg gaccctcctt 480
 gcttgccggc gctgaacttc gtgcggctcc tcatgtgta cctcggccgc gaccacgcta 540
 agggcgaatt ccagcacact ggcggcgggt actagtggat ccgagctcgg taccaagctt 600
 ggcgtaatca tgggtcatagc tgtttctgt gtgaaattgt tatccgctca caattccaca 660
 caacatacga gccggaagca taaagtgtaa agcctggggg gcctaataag tgagctaaact 720
 cacattaatt gcgttgcgct cactgcccgc ttttcaatcg ggaaacctgt cgtgccagct 780
 gcattaatga atcggncaac gccccgggan aagcggtttg cgtattt 827

<210> 218
 <211> 498
 <212> DNA
 <213> Homo Sapien

<400> 218
 cacttgacct gattacgcca agcttggtag cgagctcgga tccactagta acggccgcca 60
 gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtactttttt tttttttttt 120
 taattcccac aacaacccat ttcaaaatga gaaaactagg ttgagtgaact tgtccacagt 180

tccaaagcta ataaaaatga tgaggcatat ttctcttctg ggcccactgt attcagttct	240
ttgttcttta cactgagtg cgaaaaaaaa aaatcagact attttgattc tagaaagtga	300
gataattgaa aatgttaaca tatttctcca aaactgatc gactgtggag tctgtcactt	360
ttttggtata ataaaggagt ttgaagaaac aaatgacatc attcctgatg atggtagccc	420
actccaacaa aggcgtatat atgtaggcaa gtttgaagat atctataaga gcattaaaag	480
gcaagtgcac cattgtgg	498

<210> 219

<211> 818

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (818)

<223> n = A,T,C or G

<400> 219

ggcctntnga gctgctcgac ggccgccatg tgatggatat ctgcagaatt cggccttagc	60
gtggcgcggc cgaggtacct agaaaaacaga aacttgagta gacatggtaa tgaccagaaa	120
aggctatctt tatacatctt ttttgctacg cttcaaattc atgtcaccta aaagttgtga	180
agtgcacaaa acaaatctac ttaactgaaa attattttca atgaatggga tgtttagaac	240
tctgtgaggg tttttaaggt cttttcgaat agcaaattct aatgaggctt ttttaagttg	300
gcaattttaa ctcatacaag aaataaaaaac tcaccagtgt ggctgggcag aatatatata	360
ttttctcaaa tattgtttgt ttgttttttc cctgcactgt atccatggtc ccatgatgaa	420
actgttatat tgctgatata tttattggaa tatgtgggac aacttccttt ccactcaaca	480
tatggattgg tagtttaaaa taattccttt ctattaagca aatgtgtggc taaggcacat	540
ttaaatagcc cattaaccca atgagatgac aatgtgttac cctcagagaa agcttaattt	600
ttggagtaac caattacaca tatcacagaa tgtctcatga gaacattttt ggctaggtct	660
accaatttat catgcaaata attatagatt ttcatttgag gcaaagatgc tgattcatca	720
ttagtaacat ggtcacaaat aatcatttat tttattttgg taacatctgt ctttctctgt	780
gggaaactta ctatatgctc tacgttaatt aaattaaa	818

<210> 220

<211> 497

<212> DNA

<213> Homo Sapien

<400> 220

cacttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca	60
gtgtgctgga attcgccctt tcgagcgggc gcccgggcag gtacagccat gaaattgttg	120
ctactcatag aaagtcttag tatagtttgg tttaaactt ttaaaattgc aaataaatat	180
agatagataa tatcatgatg agaaggctc gggaagcctg gagatttcag ggtgctcttt	240
cataattgga gcgagaatca tgtaacagtt aagaaaactaa actcttgagc cttcatagtc	300
tttgctttct cccattttat ttatctgata ttatataccc tctttaatta tagactggac	360
tgaaatattt tattttttgt ttattataaa aaatcctact cgtctttaac atgttctctt	420
aaagagtgtt tcatatataa atactttccc cccaaaatat aaagaggcta accactatag	480
tattgaaaga ttgaaag	497

<210> 221

<211> 831

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (831)

<223> n = A,T,C or G

<400> 221

cnnnannggg cctntanagc atgctcgacg gccgcatgt gatggatgc tgcagaattc	60
gcccttagcg tggctcgggc cgaggtacaa tgaaagtatg agctacctct ctgaagtctg	120

gaaaccttga	gagtattaag	gttacatgca	taaaatcttt	aaaatggaag	tgtcattaca	180
tggtaaacca	attcaaatta	aaaataatct	catgctgtga	aagcaaaata	tataactggt	240
ttaccattc	ataggttaatt	gcacgtcttt	gttacatctc	aatagtttct	ttgtatttgt	300
tgcaatcacc	ctccttcttc	tcaacactct	ttctacctc	catgtaactg	ctggttgtaa	360
ttctttataa	tattctcatc	aatgtttaaa	gatgaagttt	aaagtgccta	caaaggaagc	420
attttaactc	ctcttagaac	tgagccttta	aattttggtt	tagacacct	aggtctttct	480
ttcaatcttt	caatactata	gtggttagcc	tctttatatt	ttggggggaa	agtatttata	540
tatgaaacac	tctttaagag	aacatgttaa	agacgagtag	gattttttat	aataaaacaa	600
aaataaaaata	tttcagtcca	gtctataatt	aaagagggta	tataatatca	gataaataaa	660
tggggagaaa	gcaaagacta	tgaaggctca	agagtttagt	ttcttaactg	gtacatgatt	720
ctcgctncaa	ttatgaaaga	gcacctgaa	atctncangc	ttncctgac	cttctcatca	780
tgatattatc	tatctatatt	tattgcaatt	ttaaaatggt	taaaccaaac	n	831

<210> 222

<211> 497

<212> DNA

<213> Homo Sapien

<400> 222

cacttgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	agcgtggctg	cgcccgaggt	actctttctc	tcccctcctc	120
tgaatttaat	tctttcaact	tgcaatttgc	aaggattaca	catttcactg	tgatgtatat	180
tgtgttgcaa	aaaaaaagtg	tctttgttta	aaattacttg	gtttgtgaat	ccatcttgct	240
ttttcccat	tggaactagt	cattaaccca	tctctgaact	ggtagaaaaa	catctgaaga	300
gctagtctat	cggcatctga	cagggtgaatt	ggatggttct	cagaaccatt	tcacccagac	360
agcctgtttc	catcctgttt	aataaattag	tttgggttct	ctacatgcat	aacaaacctt	420
gctccaatct	gtcacataaa	agtctgtgac	ttgaagttta	gtcagcaccc	ccaccaaact	480
ttatttttct	atgtgtt					497

<210> 223

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (822)

<223> n = A,T,C or G

<400> 223

gggcctnaga	gctgctcgnc	ggccgccatg	tgatggatat	ctgcagaatt	cgcccttcga	60
gcgccgcccc	gggcaggtag	tttattttca	aaaaactcat	atgtcgcaaa	aaacacatag	120
aaaaataaag	tttgggtggg	gtgctgacta	aacttcaagt	cacagacttt	tatgtgacag	180
attggagcag	ggtttggtat	gcatgtagag	aacccaaact	aattttattaa	acaggatgga	240
aacaggctgt	ctgggtgaaa	tggttctgag	aaccatccaa	ttcacctgtc	agatgccgat	300
agactagctc	ttcagatggt	tttctaccag	ttcagagatg	ggttaatgac	tagttccaat	360
ggggaaaaag	caagatggat	tcacaaacca	agtaatttta	aacaaagaca	cttttttttt	420
gcaacacaaat	atacatcaca	gtgaaatgtg	taatccttgc	aaattgcaag	ttgaaagaat	480
taaattcaga	ggagggggaga	gaaagagtac	ctcgcccgcg	accacgctaa	gggcgaattc	540
cagcacactg	gcggccgtta	ctagtggatc	cgagctcggt	accaagcttg	gcgtaatcat	600
ggtcataget	gtttcctgtg	tgaaattgtt	atccgctcac	aattccacac	aacatacgag	660
ccggaagcat	aaagtgtaaa	gcctgggggtg	cctaattgagt	gagctaactc	acattaattg	720
cgttgcgctc	actggccgct	tttcagtcng	gaaacctgtc	gtgccagctg	cattaatgaa	780
tcggccaacg	cgccgggaga	ngcngnttgc	gtattgggcc	cn		822

<210> 224

<211> 494

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (494)

<223> n = A, T, C or G

<400> 224

cncttgacnt	gattacgcca	agcttggtac	cgagctcgga	tccctagtaa	cgcccgccag	60
tgtgctggaa	ttcgccctta	gcgtggctgc	ggccgaggta	cttttttttt	tttttttaac	120
caactcaata	tgtgtttgat	gatagtgaat	tgataaaaacc	cgaagctttt	ccctgtaaat	180
cttacatctt	tgccctttaa	gaatgggtta	caaccatcac	tagatcacag	tagtgcctaa	240
tgaaggttga	gaaccgtagg	agaggctctc	atgctgtaaa	taatgttgca	ggctaataac	300
ctttcatcac	ttcctttgtg	cgcttcctgc	cttaagtgc	aagtagcaac	atggcttggg	360
tcccctgtgc	agcatcagct	tatgctgcca	caagtcagtt	tgacccctag	gtgcccagga	420
gctagtatcc	ttagatcttt	ctatcgctaa	cttaattctc	ttcgttattt	atctgaccct	480
ctaactccat	gtct					494

<210> 225

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (822)

<223> n = A, T, C or G

<400> 225

gggccttnga	gctgctcnc	ggccgccagt	gtgatggata	tctgcagaat	tcgcccttcg	60
agcgcccgcc	cgggcaggta	ctttaatttt	gcttggtcaa	atgatctaca	cttacatttt	120
gcaaatcttt	tttttttaaa	tttttaatt	ttatatcttt	ttccagcca	actcaaggcc	180
aaaaaaaaatt	tcttaatata	gttattatgc	gaggggaggg	gaagcaaagg	agcacaggta	240
gtccacagaa	taagacacaa	gaaacctcaa	gctgtgaggt	caatttgtaa	ttaaaagaat	300
actaagatta	gatgaacaca	acactcagaa	atactctagg	agagctgaaa	aagaaggaaac	360
agatgttaac	aaaacaaatt	aaggctgctg	gggaacctga	gtccatgtta	agcttggggt	420
gactgtaaag	aatttttttt	tttaatgcaa	gttagacatg	gagttagagg	gtcagataaa	480
taacgaagag	aattaagtta	gcgatagaaa	gatctaagga	tactagctcc	tgggcaccta	540
gggtgcaaac	tgacttgagg	cagcataaag	tgatgctgca	caggggaccc	aagccatggt	600
gctactgttc	acttaaggca	ggaagcgcac	aaaggaagtg	atgaaagggt	attagcctgc	660
acattattta	cagcatgaga	gcctctccta	cggttctcaa	ccttcattag	gcctactgtg	720
atctantgat	ggntgtaccc	attcttttaa	ggcaaagatg	taaggattta	cagggaaaag	780
cttcggggtt	tatcaattca	ctatcatcaa	acacatattg	ng		822

<210> 226

<211> 498

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (498)

<223> n = A, T, C or G

<400> 226

anntaaacta	tgacctgatt	acgccaaactt	ggtaccgagc	tccggtccac	tagtaacggc	60
cgccagtgtg	ctggaattcg	cccttttcgag	cgccgcgccg	ggcaggtaac	ctctcatata	120
tgcaaacaaa	tcgagactag	gcctcaggca	gagactaaag	gacatctctt	gggggtgtct	180
gaagtgattt	ggacccctga	gggcagacac	ctaagtagga	atcccagtg	gaagcaaagc	240
cataaggaag	cccaggattc	cttgtgatca	ggaagtgggc	caggaaggtc	tgttccagct	300
cacatctnat	ctgcatgcag	cacggaccgg	atgcgccac	tgggtcttgg	cttccctccc	360
atcttctcaa	gcagtgtcct	tggtgagcca	tttgcatcct	tggctccagg	tggtccctcc	420
agtctggact	ctaccacttg	ggtctccaga	ttttctgtta	cgtccttggt	ggtcaggata	480
tttctggaag	tcactccg					498

<210> 227

<211> 815
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 227

gggcctctna	agctgctcga	cgcccgccat	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggtcgcg	gccgaggtac	attgatgggc	tgagagcag	ggtggcagcc	tggtctgcac	120
agaaccaaga	attacagaaa	aaagtccagg	agctggagag	gcacaacatc	tccttggttag	180
ctcagctccg	ccagctgcag	acgctaattg	ctcaaacttc	caacaaagct	gccagacca	240
gcacttggtg	tttgattctt	cttttttccc	tggtctctcat	catcctgccc	agcttcagtc	300
cattccagag	tcgaccagaa	gctgggtctg	aggattacca	gcctcacgga	gtgacttcca	360
gaaatatcct	gaccacaag	gacgtaacag	aaaatctgga	gacccaagtg	gtagagtcca	420
gactgagggg	gccacctgga	gccaaggatg	caaatggctc	aacaaggaca	ctgcttgaga	480
agatgggagg	gaagccaaga	cccagtgggc	gcatccggtc	cgtgctgcat	gcagatgaga	540
tgtgagctgg	aacagacctt	cctggcccac	ttctgatcac	aaggaatcct	gggcttcctt	600
atggctttgc	ttccactggg	attcctactt	aggtgtctgc	cctcaggggt	ccaaatcact	660
tcaggacacc	ccaagagatg	tcctttagtc	tctgctgagg	cctantctgc	atttggttgc	720
atatatgaaa	aggtacctgc	ccgggccggc	cgttcnaang	gcgaatttca	gcacactygc	780
ggnccntact	agtggatccc	aactcggtag	caagc			815

<210> 228
 <211> 512
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(512)
 <223> n = A,T,C or G

<400> 228

annnnntttt	acctannact	atgacctgat	tacgccaaact	tggtaccgag	ctcggatcca	60
ctagtaacgg	ccgccagtgt	gctggaattc	gccctttcga	gcggccgccc	gggcaggtac	120
taggtttgca	aaaccaatag	catgcacatg	tggtgggctg	aggttcatgt	gtcagagact	180
cagttgtaga	aggaactttg	aatctggcag	gcacttaact	gtggctgctc	agaactaatg	240
tatctggggc	tgcttgagca	ggggctgagg	tcagaggcag	ggagtgcgct	ctccatcatc	300
cttgactcag	acccagctcc	gcaggagctc	catggctcatc	cctggagctc	atgtggagtg	360
caaggtccgg	gagtgggggc	gctgacagaa	acaaatctgg	ggggatcagc	caggggtcagc	420
aggggacaga	gatcatgtct	tttagaagaa	tgtgggcttc	ctgacctata	gaagggcagc	480
tgttcacccc	ctgcagatga	tagcagggat	ng			512

<210> 229
 <211> 815
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 229

gggcctnaga	gcatgctcga	cgcccgccat	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggtcgcg	gccgaggtac	tttttttttt	tttttttttt	ttcagagata	ggttcttact	120
atgctgccct	ggctggagtg	cagtggcttt	cttaggggca	atcacagctc	actgcagcct	180
ggaactcctg	ggctcagcct	cctaagtagt	tgagactacc	aatgcacgcc	accatacctg	240
gccttagata	ccccctgtat	cctggaactc	actccttata	agagacactg	aatgtggaag	300

tcttcgcaga	tattaagggc	actgcccagt	tcctgtcttt	gaattattgg	gccaacaaca	360
gaaaggcgct	cctgaggccc	cagatcatcc	ctgctatcat	ctgcaggggg	tgaacagctg	420
cccttctata	ggtcaggaag	cccacattct	tctaaaagac	atgatctctg	tccccctgtg	480
accctggctg	atccccccag	atctgtttct	gtcagcgccc	ccactcccgg	accttgcact	540
ccacatgagc	tccagggatg	accatggagc	tcctgcgagg	ctgggtctga	gtcaaggatg	600
atggagagct	cactccctgc	ctntgacctc	agccccctgt	caagcagccc	cagatacatt	660
agttctgagc	agcccagtta	agtgcctgcc	agattcaaag	ttccttctac	aactgagtct	720
ctgacacatg	aaccttaagc	ccaacacatg	tgcattgctat	tgggttttgc	aaacctagta	780
cctgnccggg	cgggcccgttc	gaaanggcga	attct			815

<210> 230
 <211> 502
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(502)
 <223> n = A,T,C or G

<400> 230						
tnnanctana	cttgacctga	ttacgcacaac	ttggtaccga	gctcggatcc	actagtaacg	60
gccgccagtg	tgctggaatt	cgccctttcg	agcggccgcc	cgggcaggta	cacagagatg	120
cgttccagct	gcaggctcgt	gtccccgtgg	taggtgccgg	tggggctgat	gccatgttca	180
tactgatca	cctcccagaa	cttggcaccg	atctggtagc	cacactgacc	agcctggatg	240
tgacagattt	ccctcatggt	taaaatttaa	tttttttgcg	cgccctcaagg	tatgtatggg	300
gcaagaaaat	aagtaatttt	ttttctccgc	aggctcgagg	ctggaagggt	ggaatgcgcc	360
ccagaggctg	gagcagcgag	gtgcaaacgc	gacggcagga	aggttctgag	agccccgcgt	420
acctcgggcg	cgaccacgct	aaggggcgaat	tctgcagata	tccatcacac	tgccggccgct	480
cgagcatgca	tctagagggc	cc				502

<210> 231
 <211> 817
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(817)
 <223> n = A,T,C or G

<400> 231						
nngggcctct	nnagctgctc	gacggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtggctg	cggccgaggt	acgcggggct	ctcagaacct	tcctgccgtc	gcgtttgcac	120
ctcgtgctc	cagcctctgg	ggcgcattec	aaccttcag	cctgcgacct	gcggagaaaa	180
aaaattactt	atcttcttgc	cccatacata	ccttgaggcg	agcaaaaaaa	ttaaatttta	240
accatgaggg	aaatcgtgca	catccaggct	ggtcagtgtg	gctaccagat	cggtgccaa	300
ttctgggagg	tgatcagtga	tgaacatggc	atcgacccca	ccggcaccta	ccacggggac	360
agcgacctgc	agctggaccg	catctctgtg	tacctgccc	ggcggccgct	cgaaagggcg	420
aattccagca	cactggcgcc	cgttactagt	ggatccgagc	tcggtacca	gcttggcgta	480
atcatgggtca	tagctgtttc	ctgtgtgaaa	ttgttatccg	ctcacaaattc	cacacaacat	540
acgagccgga	agcataaagt	gtaaagcctg	gggtgcctaa	tgagtgaagt	aactcacatt	600
aattgcgttg	cgctcactgc	ccgttttcca	gtcgggaaac	ctgtcgtgcc	agctgcatta	660
atgaatcggc	caacgcgcgg	ggagaggcng	nttgcgtatt	gggcgctctt	ccgcttnctc	720
gctcacttga	ctcgtttgcg	ctcggctcgtt	cngcttgccg	cnanccggat	tcagcttact	780
taaaggcggt	aataccgggt	atccaccaga	attangg			817

<210> 232
 <211> 481
 <212> DNA
 <213> Homo Sapien

<400> 232
 actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
 gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtacaaattt gttgtgtttt 120
 ttatgttcta ataatactga gacttctagg tcttaggtta atttttagga agatcttgca 180
 tgccatcagg agtaaatttt attgtgggtc ttaatctgaa gttttcaagc tctgaaattc 240
 ataatccgca gtgtcagatt acgtagagga agatcttaca acattccatg tcaaattctgt 300
 taccatttat tggcatttag ttttcattta agaattgaac ataattattt ttattgtagc 360
 tatatagcat gtcagattaa atcattttaca acaaaagggg tgtgaacctt agactattta 420
 aatgtcttat gagaaaaatt cataaagcca ttctcttctc attcaggtcc agaaacaaat 480
 t 481

<210> 233
 <211> 809
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(809)
 <223> n = A,T,C or G

<400> 233
 gggcctctnn agcatgctcg acggccgcca tgtgatggat atctgcagaa ttcgccctta 60
 gcgtggctgc ggcgagagta caaaagatac tgttcacccc attagagaac tgatttgaag 120
 ttactcttcc ctgtgagggc tctgtcatct taactgtatt cacatacttt caactgttcc 180
 ccttgctgct aacctcaggt tcttttagttc atctatctgg cagagctgat ttggggaaaa 240
 caagacaaac cttgtcaggt tttcttaata aataagcagt tgtcatgttt caagagtttt 300
 agaaatgagc aataatcaag gaagaggaca acgattgcat acgtttataa tatttagaac 360
 atcttttgcc acaataaaca ctggaaacca cccacttggt gacaccaaac atttggattt 420
 gtatattttg tggcattccc tcaacttaac cctctcatcc ttaaaaattt tcagaaattt 480
 ttgcagcaac aaacactgat tgcaacatat gatttagggg agatttatga accatttttt 540
 tactgaaata catcaacagg agtgagtagt ctgagtgacc accccagcat ggagaaaact 600
 gtagtttaca gattcttctg gagcattttt atttctagat tgcagtggaa gtctaaccct 660
 ccttgagat gtctgcctta aagggtcttt ggccagggtc ctctgtagag ccatagtcca 720
 gatctactct atttgngtgc tccttacaac atcagaacag caactctcaa tccggatcat 780
 cccagaatgc cgctgagtc cagcgtggg 809

<210> 234
 <211> 482
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(482)
 <223> n = A,T,C or G

<400> 234
 actatgacca tgattacgcc aagcttggtg ccgagctcgg atccactagt aacggccgcc 60
 agtgtgctgg aattcgccct tcgagcggcc gcccgggcag gtactgaaaa gaagatagtg 120
 ccatttgaaa caacagatgc atcttttata cattttcaca agttngtttt tcatattttt 180
 aaaggcccca tttatctgta acagtgggtat ttttatttag agtatcggct acttaatata 240
 tacatgcaac aatatatgct ttaatagtca ttttaactttt angaatattt catnacatta 300
 agtggttaag catagcggtt aaagagtggg atataaggaa tannaanntn tngaaaatac 360
 gctgctannt tcattngcan actatagtag aatggagatg cccataaaaag tgatcattgc 420
 ccaactgaat tcctacceng aactaacatg tgattctcaa gtgggganaa atattattaa 480
 aa 482

<210> 235
 <211> 474
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(474)
 <223> n = A,T,C or G

<400> 235

acttgacctg	attacgccaa	gcttggtacc	gagctcggat	ccactagtaa	cggccgccag	60
tgtgctggaa	ttcgccctta	gggtggctgc	ggccgaggta	cattacttgg	tgtaaactt	120
gttggcagt	gtagccctt	ttcagaaagc	aacttgctgt	aagtcagggt	gtcctgtcca	180
accttcagct	agtgaagag	tagtaacaaa	tggtaaacaa	gagaatgatt	gtttaaacct	240
atctgtggac	acttaatgca	actgtttaaa	aatgataatc	acgagttatg	tagcaacgtg	300
gaaatatatt	tacagaacat	taatggagaa	gcagggacac	gaagtatatt	atactacagt	360
tataactcaa	cagtcattat	atgccgggtca	tttaccagtc	atttaaccag	ttcattataa	420
ctgttttaaaa	atatatatgc	ttatagtcaa	aagctgttgt	ggtgtgtgtg	ttgn	474

<210> 236
 <211> 819
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(819)
 <223> n = A,T,C or G

<400> 236

gggccttma	gctgctcnc	ggccgccagt	gtgatggata	tctgcagaat	tcgcccttcc	60
gagcggccgc	cggggcaggt	actttttttt	tttttttttt	tttttatatt	taactttatt	120
ttttatgntg	acactattac	agatagaatg	accacaacca	tattaacaaa	ccaaaaacct	180
gtgcacagaa	acaagatgaa	gaaaatatat	caagatgtta	aacacactct	ttggatgggtg	240
aaaacatggg	tgagtttctc	ttctacattt	ctgtaacttc	aaagtttcta	taatgaacac	300
atthcatata	taatggaaat	atatgtagta	aaggtggact	acaaaaacac	tagaatgatg	360
acctttcaag	gaaaccgaaa	caaaaataacc	ataatcccac	aacaaccaca	caactatttc	420
ttgnttttca	tctttcttcc	catctttgac	atthtatgcat	acttatcact	aacaccctaa	480
taatcacaga	ctagtgcaca	gatcaagatg	ttaacagtta	attgttgttg	ggtgttggga	540
atatgtgtga	atthttctta	ctgaatttcc	aaagttttgt	atgagtatgt	attatatattg	600
taatggaaaa	tacatacata	aaattttatta	ccaaaacacc	aaagattatt	taaggggaatt	660
tgagacaaaa	tatttaacca	aattcccaca	atgacaacac	tatttttagtt	atthttccaca	720
tcttttctatt	taagacttta	tgcacacata	tttaacactg	gtatcacaag	cgtgggcact	780
gaaacaagga	tnganggaac	nggatcagga	tgtagccg			819

<210> 237
 <211> 483
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(483)
 <223> n = A,T,C or G

<400> 237

agcttgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccgcca	60
gtgtgctgga	attcgccctt	agcgtggctg	cggccgagggt	actaagctca	gcatgtctca	120
tggtcaatta	ctgcgtatth	ccaaaaaatg	tggtgttttg	tcttgagaaa	attcttttagc	180
cccttgacac	cagaattatc	tccactgtag	aaaaaataga	caattatagt	ctaacaggta	240
aatcacaaaa	attcttcagc	cacacttctt	gggttcaaat	gtggtttttc	tactcagtaa	300
tattgtaacc	ctgggcaagt	tatttaactt	gtctaagtct	cagtttctcc	atctgtaaaa	360
tgaggataat	cacaatatct	actacataat	gttcttctga	agatgtaatg	agataatcca	420
tgtnaaatat	tcanacagca	cataggaatg	ggtcatttaa	tgthtatcat	tacttgcccta	480
ttt						483

<210> 238
 <211> 815
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 238
 gggcccntnn agctgctcgn cggccgccag tgtgatggat atctgcagaa ttcgcccttt 60
 cgagcggccg cccgggcagg taccattatt ttccattcaa taccatatgt ctgaaaaata 120
 ggcaagtaat gataaacatt aaatgaccca ttcctatgtg ctgtctgaat attttacatg 180
 gattatctca ttacatcttc agaagaacat tatgtagtag atattgtgat tatcctcatt 240
 ttacagatgg agaaactgag acttagacaa gttaaataac ttgccagggt ttacaatatt 300
 actgagtaga aaaaccacat ttgaaccacg gaagtgtggc tgaagaattt ttgtgattta 360
 cctgttagac tataattgtc tattttttct acagtggaga taattctggt gtcaagggggc 420
 taaagaattt tctcaagacc aaacaacaca ttttttggaa atacgcagta attgaccatg 480
 agacatgctg agcttagtac ctccggccgg accacgctaa gggcggaattc cagcacactg 540
 gcggccgcta ctagtggatc cgagctcggg accaagcttg gcgtaatcat ggcatagct 600
 gtttccctgtg tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat 660
 aaagtgtaaa gcctgggggtg cctaattgagt gagctaactc acattaattg cgttgcgctc 720
 actgnccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa tcggncacacg 780
 cgccggggag aggcngnttg cgtattgggc gctct 815

<210> 239
 <211> 483
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(483)
 <223> n = A,T,C or G

<400> 239
 actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
 gtgtgctgga attcgccctt agcgtggctg cggccgaggt actttttttt tttttttttt 120
 ttttttttta gcgagcaagt atggnttatt acggacaaat ggtagaaaaa tgttactaat 180
 atccatagat aagttcctta agtcatgtag agagactggt attaaaagtt tgctgcattt 240
 ttctattgaa tcaagaacta gctaccagtt acagtgcctt ctaaacacac agtttagcttt 300
 gctttatcaa taaccaaata ataaactagg tcccaatggt tttgtccaca tntagattgt 360
 tcaggtgatc aggaactctt ttattttgtg gcttttagctt ttagttcttg gttatatctc 420
 caaatacgaa aaagctgaga ggctcctact gccccacaa agaaattaac agcaaacaga 480
 ctt 483

<210> 240
 <211> 815
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 240
 gggcctntna gctgctcgac ggccgccatg tgatggatat ctgcagaatt cgccttttcg 60
 agcggccgcc cgggcaggta caaccatcca gcaggccca gaacagtttt cttctgggct 120
 ccaattatga aatggggggt ggtgtgtgct ggattggctg atatggccag acctgcagaa 180


```

aaacttagca cagctcaatc tgctgttttg atggctacag gggtttatttg gtcaagatac 240
tcacttgtaa ttattccaaa aaattggagt ctgtttgctg ttaatttctt tgtgggggca 300
gtaggagcct ctcagctttt tcgtatttgg agatataacc aagaactaaa agctaaagca 360
cacaaataaa agagttcctg atcacctgaa caatctagat gtggacaaaa ccattgggac 420
ctagttttatt atttggttat tgataaagca aagctaactg tgtgtttaga aggcactgta 480
actggtagct agttcttgat tcaatagaaa aatgcagcaa acttttaata acagtctctc 540
tacatgactt aaggaaacta tctatggata ttagtaacat ttttctacca tttgtccgta 600
ataaaccata cttgctcgtc aaaaaaaaaa aannnnnaaa aaaaaaagta cctcgggccgc 660
gaccacgcta agggcgaatt ccagcacact ggcgcccggt actagtggat ccgagctcgg 720
taccaagctt ggcgtaatca tgggtcatag ctggttcctg tgtgaaatgg tatccgntca 780
caattncaca caacatacga accggaagcc ttaag 815

```

<210> 241

<211> 486

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(486)

<223> n = A,T,C or G

<400> 241

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agctatgacc atgattacgc caagcttggt accgagctcg gatccactag taacggccgc 60
cagtgtgctg gaattcgccc ttagcggccg cccgggcagg tacttcccac cactggaaat 120
gttagcataa aagaacttgg agaggaaaaa agtattaaca aaactgcagt ctgcactctt 180
taaacctgtt taaggctctt catcctgggt agcaaaaggt gtgaatgtaa tgtgatggaa 240
tttaaaagtt ttatgagacc aggcacagt gctcacgact gtaattccag cagtttagga 300
agccgaagtg tgcagatcac ctgaggtccg gagaccagcc tggccaacat ggtgaaaccc 360
tgtctctact agaaatacaa aaattagcca ggtgtggtgg cgggcgcctg taatcccaac 420
tactcaggag gctgaggcta gagaatcact tgaaccacgc angcggaggt tgcggtgagt 480
cganat 486

```

<210> 242

<211> 481

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(481)

<223> n = A,T,C or G

<400> 242

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anttgaacctg attacgccaa gcttgggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctggaat tcgcccttcg agcggccgcc cgggcaggta catcagtgtt cattttatta 120
tttcttacac tgtcttcctg acttacacat aatattttgc tagttttaaa acataagatg 180
tgataataat ctaaacagac caaaggaaat aaatgaatat gattaaaaaa agacagagaa 240
taagccctgt ctgatggaaa gcataacaaa gcaggtagaa caactgtcag gaatgcttga 300
tccaataaag ctaggtttgt gatccacaac acttcagcat tttaatgtga tttttgatgt 360
tngctttttg caatggtgat tctcagttgc ctccctcctg tgtctttaca agctgaaatc 420
aagtgaagct acttctgact ttttctaaaa cttaaaccac acatgaaggt ctgcgtattc 480
t 481

```

<210> 243

<211> 824

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(824)

<223> n = A,T,C or G

<400> 243

cnannngggcc	tntnnagcat	gctcgacggc	cgccatgtga	tggatatctg	cagaattcgc	60
ccttagcgtg	gtcgcgggccg	aggtacataa	tacttttagat	aaacatTTTT	agaataactt	120
tattataact	cgataagcaa	aataatccaa	acctttatac	atttctacaa	ggatagtcac	180
atatgtcaat	ttttcggttt	cctctcgtgc	ctattttgtc	tctgagccg	gcccctttcc	240
agctgacacg	tgtgtccgt	gttctccac	aatagtgtga	cctggcctga	gtccatggcg	300
ccgtgagcct	cctttctgtg	cttacaacag	cagcctgcct	gatgtcagtt	atggactatt	360
ctttctttca	gcctcatttc	agggtcctct	gcctcttaga	gctgctgctg	tagcttagct	420
agagaccgcg	tgctgttgca	tcatggaaaa	gtgccacata	cgtgcacatg	tgaaagaata	480
cgcagacctt	catgttgggt	ttaagtttta	gaaaaagtca	gaagttagctt	cacttgattt	540
cagcttgtaa	agacacagga	gggaggcaac	tgagaatcac	cattgcaaaa	agcaaacatc	600
aaaaatcaca	ttaaaatgct	gaagtgttgt	ggatcacaaa	cctagcttta	ttggatcaag	660
cattcctgac	agttgttcta	cctgcttttg	ttatgctttc	catcagacag	ggcttattct	720
ctgtcttttt	taatcatatt	catttatctt	ctttggtctg	tttagattat	tatcacatct	780
tatgttttaa	aactagcaaa	atattatgtg	taagtcatga	agnt		824

<210> 244

<211> 483

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(483)

<223> n = A,T,C or G

<400> 244

actatgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggcccgcg	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgcccgggca	ggtacgcggg	ggcaggggtg	120
ttaatcgctg	ccaagcgga	cttactgcaa	gctatcaaat	ctgaggtctt	attttgttga	180
gtcgaaagt	aaattttcct	ttggccaacg	tgacagggct	ttgtttggtg	gtaaaaagg	240
ttactagaca	ccccctcatc	cactgcact	ggagggcgca	tttctcagct	cttgctcttc	300
aaacctgctg	aaaggaattc	ctagatctaa	acaccagcat	ttgacattgt	gcagcaaana	360
aatggttatg	ganaagccca	gtccgctgct	tgtanggcgg	gagtttgtga	ggcaatatta	420
tactttgctg	aataaagctc	cggaaatatt	acacaggttt	tatggcagga	attcttccta	480
tgt						483

<210> 245

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 245

ttgggcccct	nnagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtgggc	gcggccgagg	tacttcccct	cgaaacataa	tgggttttgc	aattaagatt	120
ctctgaactg	gttcagagtc	atcaaaaacc	acaaaaccaa	aatttgggaag	ctttccccca	180
acacccttgg	tattgatgcg	aagttccaca	acgtttccaa	aactcatgaa	gaattccttt	240
agctcatttt	catcaatata	atgtggcaag	ttaccaacaa	aaagttagatg	actatctgga	300
tagcgaatta	ttctacgggt	gtcagagtca	ttctgttcca	tatctcctct	gcctggctct	360
ggctccttag	gaggaaaacc	aggctgttct	ctaggctggt	gttcacgcac	acgaggtggc	420
tgagattgaa	cttctgggtt	agcttcgact	cttggctttg	gtgggttctt	tgccagagaa	480
acaggttctg	ccggaggagg	agtagtagat	ttctcctcta	gttcttctaa	gttcttctcc	540
tccacttggt	gtttcagctc	ttcagtcctt	gtttcagatt	ctggctcagg	ttcaggttca	600
tgagaggatt	cttccaaagg	ctcctctatg	ccattagtca	caggggtgagc	ttcatagtaa	660
ccactgttag	cattttcttg	cacaggttca	ggagatgggt	gnctttcttc	ttggctcctc	720

tctacttcat cttctgattc ttcatacaag ttcangctca gaatcaccaa acacttnatc 780
ttcataacga aacatatcat tgtgaacata aaatttattt gg 822

<210> 246
<211> 482
<212> DNA
<213> Homo Sapien

<400> 246
actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt agcgtggctg cggccgaggt actttttttt tttttttttt 120
aaccaactca atatgtgttt gatgatagtg aattgataaa acccgaagct tttccctgta 180
aatcttacat ctttgccctt aaagaatggg ttacaaccat cactagatca cagtagtgcc 240
taatgaagggt tgagaaccgt aggagaggct ctcattgctg aaataatggt gcaggctaatt 300
aaccttttcat cacttccttt gtgcgcttcc tgccttaagt gacaagtagc aacatggctt 360
gggtcccctg tgcagcatca gcttatgctg ccacaagtca gtttgcaacc taggtgcccc 420
ggagctagta tccttagatc tttctatcgc taacttaatt ctcttcgtta tttatctgac 480
cc 482

<210> 247
<211> 816
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

<400> 247
gggccttnga gctgctegan cggccgccat gtgatggata tctgcagaat tcgccccttc 60
gagcggccgc ccgggcaggt actttaattt tgcttggtca aatgatctac acttacattt 120
tgcaaatctt ttttttaaat ttttttaatt ttatatattt tttccagcca actcaaggcc 180
aaaaaaaaatt tcttaatata gttattatgc gaggggaggg gaagcaaagg agcacaggta 240
gtccacagaa taagacacaa gaaacctcaa gctgtgaggt caatttgtaa ttaaaagaat 300
actaagatta gatgaacaca acactcagaa atactctagg agggctgaaa agaaggaac 360
agatgttaac aaaacaaatt aaggctgctg gggaacctga gtccatgtta agcttgggtt 420
gactgtaaag aatttttttt tttttaatgc aagttagaca tggagttaga gggtcagata 480
aataacgaag agaattaagt tagcgataga aagatctaag gatactagct cctgggcacc 540
taggggtgcaa actgacttgt ggcagcataa gctgatgctg cacagggggac ccaagccatg 600
ttgctacttg tcaactaagg caggaagcgc acaaaggaag tgatgaaagg ttattagcct 660
gcaacattat ttacagcatg agagcctctc ctacgggtct caaccttcat taggcactac 720
tgngatctag tgatggttgt acccattctt taaaggcaaa gatgtaagat ttacagggaa 780
aagcttcggg ttttatcaat cctatcatca acacng 816

<210> 248
<211> 482
<212> DNA
<213> Homo Sapien

<400> 248
actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtactctttg ggcattaatg 120
ccttctctgt aattatatct cgtttttgct tggcagtgac ctaccagta attgcatcgt 180
gtattgccat gaaaggtaaa cacattgtga actgaactta ccaagcagat tctgtgagaa 240
agcactgggt ggggctgaac actgttgaca catcattttt attggaagag tattaactgg 300
tgccctcttct gaaacacacc aacctatatt cctctgctcc cccaaagctg tttctgatcc 360
tgctgggagc aactaactag ttattatgca catctgctcc agaccagct ctttaacttc 420
atggttttac agcttggttt ttttttttct ttttttttct ttttttttaa aaaagcacct 480
tt 482

<210> 249

<211> 821
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(821)
 <223> n = A,T,C or G

<400> 249

ggcctctnag	ctgctcgacg	gccgccatgt	gatggatata	tgcagaattc	gcccttagcg	60
tggtcgcggc	cgaggtactt	tatgaatttg	gggtaggtaa	agtttgattt	ttatcttaaa	120
catgttttct	atgatgaaaa	ggaacaaaat	tgtaaaaaat	gaggatcttc	cctctaaagg	180
tttcaaagcg	ttagaggaca	tgcaattaaa	tggtgttaca	ccttgaacaa	tgagcctctt	240
gagttttag	gaagggcaga	ccggctccat	taccaacaac	tttggggtag	aaagcacagc	300
tctcctcttt	taccagcac	aaatgcaatc	ctgattataa	aactatttgt	gtttctaaat	360
acaaccaaag	gaaatcttag	agaaacataa	attagaaacc	tcttttatta	aggggaaaca	420
acaaaaaaag	gtgctttttt	aaaaaaaaag	aaaagaaaag	aaaaagaaaa	aacaagctgt	480
aaaaccatga	agttaaagag	ctgggtctgg	agcagatgtg	cataataact	agttagttgc	540
ttccagcagg	atcagaaaca	gctttggggg	agcagaggaa	tatgggttgg	tgtgtttcag	600
aagaggcacc	agttaatact	cttccaataa	aaatgatgtg	tcaacagtgt	tcagccccaa	660
ccagtgtttt	ctcacagaat	ctgcttggtg	agttcagttc	acaatgtgtt	tacctttcat	720
ggcaatacac	gatgcaatta	ctgggtagggt	cactgccaaag	caaaaacoga	agatntaatt	780
ttccgagaag	gcattaatgc	caaagagta	cctgccccgg	n		821

<210> 250
 <211> 481
 <212> DNA
 <213> Homo Sapien

<400> 250

acttgacctg	attacgccaa	gcttggtacc	gagctcggat	ccactagtaa	cggccgccag	60
tgtgctggaa	ttcgccctta	gcgtggctgc	ggccgaggta	caacattgat	gttttaatat	120
agaatgaagt	gcttgctaca	cagtcaagta	aatcaacata	tccattacca	cacacacttt	180
tcttttctga	ggagcggtaa	gagtacttta	attttgcagt	tattgattaa	ttaaaaaaca	240
cagttgtttt	cagcatttcc	tagttacagt	agtgcatagg	aaattccatt	ctaaacaaag	300
aagtaattaa	tgaaataaca	acacacctta	acattttaca	ttgatagggt	acagtttaca	360
aggtgctttc	acatacatta	tttcatttga	ttcttacaac	aagcagaaaa	aacagtggga	420
aagatttttt	ttttcaggct	tacaatgagt	atttttcaggc	caatgggcag	ttaacacaag	480
g						481

<210> 251
 <211> 803
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(803)
 <223> n = A,T,C or G

<400> 251

gggccttnna	gctgctcgnc	ggccgccagt	gtgatggata	tctgcagaat	tgcgcccttc	60
gagcgccgc	ccggcaggta	cactaaatta	gaatatTTTT	aaagtatgta	acattcccag	120
tttcagccac	aatttagcca	agaataagat	aaaaacttga	ataagaagta	agtagcataa	180
atcagtattt	aacctaaaat	tacatatattg	aaacagaaga	tattatgtta	tgctcagtaa	240
ataattaaga	gatggcattg	tgtaagaagg	agccctagac	tgaaagtcaa	gacatctgaa	300
tttcaggctg	gaaaactatc	agtatgatct	cagcctcagt	tctcttgtct	gtaaaatgga	360
agaactggat	taggcagttt	gtaagattcc	tcctaacttt	cacagtcgat	gacaagattg	420
tctttttatc	tgatattttg	aagggtatat	tgctttgaag	taagtctcaa	taaggcaata	480
tatttttaggg	catctttctt	cttatctctg	acagtgttct	taaaattatt	tgaatatcat	540
aagagccttg	gtgtctgtcc	taattccttt	ctcactcacc	gatgctgaat	accagtttga	600

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atcaaactgt caacctacca aaaacgatat tgtggcttat ggggtattgct gtctcattct 660
tggtatatct ttgtgttaac tgcccatggc ctgaaaaaac tcattgtaag cctgaaaaaa 720
aaaatctttc ccactgggtt ttctgcttgg tgtaagaatc aaatgaaata tggatgtgaa 780
agcccttgta actgtacctt tcn 803
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<210> 252
<211> 500
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (500)
<223> n = A,T,C or G

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<400> 252:
tacnccaann tttgacctga ttacgccaaag cttggtaccg agctcggatc cactagtaac 60
ggccgccagt gtgctggaat tcgcccttag cgtggctcgc gccgaggtag agatgaaaag 120
aagtgggtgtt aatgacctac ctgcaccgat aataaagcaa atagaatgat tatatacatt 180
aagatcagct tgattaaaaa taaattttat atgcaggtaa attgatcatt aaaatgaacc 240
cagtttaact cttctcgtgt gttgttttaa ggtaggccac tgaaacgcag agataaaatc 300
anatggggaa aattaaaagc naagaaaaaa attacaaaac aagtgggtta agccatggat 360
tcttaaccaa accctggact aaatgtgccca aagtgtcttg aaaattttcca ctgccagcna 420
tggntggtaa agtcantttg gcaaaaaaaa ggtgggttnga aaaaaaactn acctttttaa 480
ttcccacctt ggatctggcn 500
```

<210> 253
<211> 831
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (831)
<223> n = A,T,C or G

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<400> 253:
gnnnnnnnnn gnnnnnnnnn ntttnnantg ggccctctnna gcatgctcga cggccgccat 60
gtgatggata tctgcagaat tcgccctttc gagcgccgc cggggcaggc actatatttg 120
tgagcctagg gtaggggcac tgctgcaact tctgctttca tcccatgcct catcaatgag 180
gaaagggaac aaagtgtata aaactgccac aattgtattt taattttgag gtatgatatt 240
ttcagatatt tcataatttc taacctctgt tctctcagta aacagaatgt ctgatcgatc 300
atgcagatac aatgttggta tttgagaggt tagttttttt tctacactt ttttttgcca 360
actgacttaa caacattgct gtcagggtgga aatttcaagc acttttgac atttagttca 420
gtgtttgttg agaatccatg gcttaaccca cttgttttgc tatttttttc tttgctttta 480
attttcccca tctgatttta tctctgcgtt tcagtggcct accttaaaac aacacacgag 540
aagagttaaa ctgggttcat tttaatgatc aatttacctg catataaaat ttatttttaa 600
tcaagctgat cttaatgtat ataatcattc tatttgcttt attatcgggt caggtaggtc 660
attaacacca cttcttttca tctgtacctc ggccgcgacc acgctaaggg cgaattccag 720
cacactggcg gcccggtact agtggatccg agctcggtag caagcttggc gtaatcatgg 780
gtcatagctg tttcctgtgt gaaattggta tccgntcaca attcccacan g 831
```

<210> 254
<211> 514
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (514)
<223> n = A,T,C or G

<400> 254

cacttgacnt	gatcgccaac	ttggtaccga	cntcgnntcc	attattaccg	gacacttgac	60
tgatacgcca	ncttgggtacc	gactcggacc	actagtaacg	gncgccagtg	tgctggaatt	120
cgcccttgag	cgcccgccc	ggcagggtacc	tctaatagcag	gctaataaat	ttaagctaatt	180
tatttatgct	acctgtgctg	tggtgggtttc	ctatcagcag	ccaaatataa	cctcacagtt	240
gttttggctgt	ttttgctttc	acaaaagagc	tattaaccaa	cttaaaaatg	ttttttgatt	300
gaaggatgct	taggggatga	gaggatatca	acaatataag	cccatgccaa	atccccattt	360
cttatcatta	aaactgacct	gacattaaag	caatgcttaa	ttttttacca	taagagtga	420
attttgagat	tataatttta	aagtgtaaaa	tatttacact	taaattacac	ttataatttt	480
aaagtgtata	atatttacac	agattaaaaat	aaaa			514

<210> 255

<211> 830

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (830)

<223> n = A,T,C or G

<400> 255

nnnnnnngcn	nnnnnnnann	nnnnnnnant	gggcctctnn	agentgctcg	acggcccgcca	60
tgtgatggat	atctgcagaa	ttcgccctta	gcgtggctgc	ggccgaggta	cttttttttt	120
ttttccagat	gaagcttg	tctgttgccc	aggctggagc	gcagtggcac	aatctcagct	180
cactgcaaac	ttcgccccct	gggtcgaagc	tagccagtct	tttagtaaac	atttagtcaa	240
caaatctgca	attataacgg	aggtttgatt	tttgttggtt	ttgtttgttt	ttaagtcact	300
ctgtggttgt	aatatcaatt	tacttttcaa	gtttagaatg	ttttgcttca	ttgtttccca	360
tattttattt	taatctgtgt	aaatattata	cactttaaaa	ttataagtgt	aatttaagtgt	420
taaatatttt	acacttttaa	attataatct	caaaatttca	ctcttatggg	aaaaaattaa	480
gcattgcttt	aatgtcagg	cagttttaat	gataagaaat	ggggatttgg	catgggctta	540
tattgttgat	atcctctcat	cccctaagca	tccttcaatc	aaaaaacatt	tttaagttgg	600
ttaatagctc	ttttgtgaaa	gcaaaaacag	caaaacaact	gtgaggttat	atttggtctg	660
tgatagggaa	ccaccacagc	acaggtagca	taaaataatta	gcttaaat	attagcctgc	720
attagaggta	cctgcccggg	cnggccgtca	agggcggaatt	ccagcacact	ggcggccggt	780
ctagtggatc	cgactcggtc	cagcttgctg	aatcatgggc	atagctgttg		830

<210> 256

<211> 524

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (524)

<223> n = A,T,C or G

<400> 256

cnnnnnnnna	ncntnanacn	nnnnnntn	nnnnnagann	nnnnnnnnnn	nnnnnnnnnn	60
actatgactg	attacgcca	cttgggtacc	actcggatcc	actagtaacg	gccgccagtg	120
tgctggaatt	cgcccttagc	gtggctcg	ccgagggtaca	ttacttggtg	ttacattgt	180
tggcagtggt	agccctttt	cagaaagcaa	cttgctgtaa	gtcagggtgt	ccgttccaac	240
cttcagccag	tgaaaaggta	gtaacaaatg	gtaaacaga	gaatgattgt	ttaaacctat	300
ctgtggacac	ttaatgcaac	tgtttaaaaa	tgataatcac	gagttatgta	gcaacgtgga	360
aatatattta	cagaacatta	agtggagaaa	gcaggacacg	aaagtatat	tatactacag	420
ttataactca	acagttcatt	tatatgctgn	tcatttaaca	gttcatttaa	acagttcatt	480
ataactgttt	aaaaatat	atgcttatag	tcaaaagctg	ttgg		524

<210> 257

<211> 814

<212> DNA

<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(814)
 <223> n = A,T,C or G

<400> 257
 ntgggcctct agaagcatgc tcgagcggcc gccagtgtga tggatatctg cagaattcgc 60
 ccttgagcgg ccgcccgggc aggtactttt tttttttttt tttttttttt tttgatattt 120
 atttttaact ttatttttat tgntgacact attacagata gaatgaccac aaccatatta 180
 acaaaccaaa aacctgtgca cagaaacaag atgaagaaa tataatcaaga tgtaaccac 240
 actctttgga tgggtgaaac atgggtgagt ttctcttcta catttctgta acttcaaagt 300
 ttctataatg aacacatttc atatataatg gaaatatatg tagtaaaggt ggactaccaa 360
 aacactagaa tgatgacctt tcaaggaaac cgaaacaaaa taaccataat cccacaacaa 420
 ccacacaact atttcttgc tttcatcttt cttcccatct ttgacattta tgcatactta 480
 tcaactaacac cctaataatc acagactagt gcacagatca agatgttaac agttaattgt 540
 tgttgggtgt tgggaatatg tgtgaatttt ctttactgaa tttccaaagt tttgtatgag 600
 tatgtattat atttgtaatg gaaaatacat acataaaatt tattaccaa acaccaaaga 660
 ttatttaagg aatttgagac aaaatattta accaaattcc cacaatgaca acactatttt 720
 agttattttc cacatctttt catttaaaga ctttatgcac acatatttaa cactgntatc 780
 acaagcgtgt gcactgnaac aggattgagg aaan 814

<210> 258
 <211> 474
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(474)
 <223> n = A,T,C or G

<400> 258
 acagctatga cctgattacg ccaagcttgg taccgagctc ggatccacta gtaacggccg 60
 ccagtgtgct ggaattcgc cttagecgtg tcgcggncga ngtacattat ttggaggact 120
 taaaatctgn atgtggacat ggtcccaact tantgtccgt taactagtta tccaaattgt 180
 aanagctaca gaaagcccag ttgaggggta antgtgcctg gntcacacag cctgcaccct 240
 gtcacctcgg caatgagcca gtgtggggca ctggggactt ctaacccttg gattgctctt 300
 tttgacctgt gcataccttc taattgnaaa atatatttca gaccgagagt acntgcccgg 360
 gcggccnctc aaaagggcga attctgcaaa tatccatcac atggcggccg ntngagcatg 420
 catctaggag ggcncaatc ccctatagn agtngtatta caattcactg gcnc 474

<210> 259
 <211> 809
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(809)
 <223> n = A,T,C or G

<400> 259
 ntgggccent agangcatgc tcgncggccg ccatgtgatg gatattctgca gaattcgcgc 60
 tttcgagcgg ccgcccgggc aggtactcac ggtctgaaat atattttaca attagaaggt 120
 atgcacaggt caaaaagagc aatccaaggg ttagaagtcc ccagtgcgcc acactggctc 180
 attgccgagg tgacagggtg caggctgtgt gagccaggca cacttaccct tcaactgggc 240
 ttctgtagct ttacaatttg gataactagt tagcggacag tagttgggac atgtcacata 300
 cagatttgag tcttccaata atgtacctcg gccgcgacca cgctaagggc gaattccagc 360
 aactggcgg ccgttactag tggatccgag ctcggtacca agcttggcgt aatcatggtc 420
 atagctgttt cctgtgtgaa attgttatcc gctcacaatt ccacacaaca tacgagccgg 480
 aagcataaag tgtaaagcct ggggtgacct atgagtgagc taactcacat taattgcgtt 540

gcgctcactg	cccgctttcc	agtcgggaaa	cctgtcgtgc	cagctgcatt	aatgaatcgg	600
ccaacgcgcg	gggagaggcg	gtttgcgtat	tgggcgctct	tccgcttcct	cgctcactga	660
ctcgcgtgcg	tccggtcggtc	ggctgcggcg	agcggtatca	gctactcaaa	ggcggtaata	720
ccgttatnca	cagaatcang	ggatacgcag	gaaagaacat	gtgagcaaaa	ngccacaaaa	780
ggccaggaac	cgtaaaaagg	ccgcgtttg				809

<210> 260

<211> 713

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (713)

<223> n = A,T,C or G

<400> 260

ctcttttaaac	gccagctcga	ntccganntc	tatccntgac	aannnnngtn	ccggnetgga	60
attcgnctt	tgcagcggcc	gcccgggcag	gtacttgagt	tcatgggcat	ctctcccgc	120
gcctctcagc	ctatctgcac	catgtctcac	acgttcagtt	gcagctctta	ccgttttgaa	180
ggcgcacgtg	ggcaagaagt	cctgggcagc	acaagaaagt	caatcacgtt	gagacagaga	240
gagcaggaga	ggaagtgggc	cccagtagaa	gtgggcgaga	gagcgttggg	tgggaacgtg	300
gcacgagaga	gagaaattat	gagattgaga	gagagagaga	gagagagaga	gagagagaga	360
gaaagagana	ganagagggg	aaganaaaaga	gacagagaaa	agaaactatt	gttgggttaa	420
atgccagcgg	aaagtccatg	ggggtgaatg	agtccggcaa	tggncangga	gttagcagct	480
tggcgtagt	tctttcactg	ntttggctgt	cttgagaata	gcattcnacn	ccgactgtgg	540
ttccccanca	gactttagnc	ngttgcccng	ncttgaattg	ccggaccaag	gttaacatag	600
gcttttcggg	tctnaatatt	tttggggctn	gaatanctcg	aaccntttgg	gctggggccat	660
ttaccgcgtn	cnnctgggt	nnnacatttt	tnctggntaa	tcccgccctt	tng	713

<210> 261

<211> 722

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (722)

<223> n = A,T,C or G

<400> 261

acgcanttag	gtaccgagct	cggatcccta	gtaacggccg	ccagtgtgct	ggaattcgcc	60
cttagcgtgg	tgcgcggccc	aggtactcct	cagccatgcc	gaaggctcct	ttccgggact	120
cttcgatggc	agacagcagg	gcattgtcct	tctcattctt	caggaagccc	tgcagctctt	180
aaatttaagg	agttacagaa	cggtcgatgc	tgnccgatcac	tgcagctctt	ccaaaccttc	240
ttatatgaga	tgagctctgt	cggaaccagt	gctcaagttt	ttcccacccc	aaactgcctg	300
aattgagggg	tgggggtggg	gagaaggaca	gagagaagag	aaaaagagag	aaagaagana	360
aaggaaaaga	acaacccctc	tgcaagtgtc	gatgtgactg	aagcactaaa	gagtcaaatt	420
aaacaatgaa	gattgcaggg	tccctttaa	aaggggtgcac	tgcagncccc	ngagcacanc	480
natcccattc	gnttgngccg	ctncacanat	tctagagaan	tcnnccatca	tgtttgaaan	540
gcncaaaant	gatgggannt	cccgnntacg	cggggactta	attctgcctt	gggaaatcaa	600
ggaanacttt	gnttggangc	ggcanttnaa	anntggcctt	aagaangnng	tgngaatttg	660
ttggccaaac	nantngaaa	gtnttccggc	cgatnggtcc	ctgattttta	aggatttnaa	720
ng						722

<210> 262

<211> 705

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (705)

<223> n = A,T,C or G

<400> 262

acgctttaaa	cnccagcttg	gtaccgagct	cggatcccta	gtaacggccg	ccagtgtgct	60
ggaattcgcc	cttgccgccc	gggcagggtac	ctgatatttt	gaacttttaa	ttgctatcaa	120
atttcagctc	tggttttatg	cattgttgta	atttctcagt	gaatcccagt	gcttctttcc	180
ttcttgaaaa	atgccatttc	gcccaggcgc	ggtgggtcat	gcttgtaatc	ccagcacttt	240
ggtaggccga	ggtgggtgga	tcagctgagg	tctgtagttc	aagaccagcc	tggttaacat	300
gatgaaaccc	tgtctctacc	aaaaatacaa	aaaaaaacta	gccaggcatg	gtgttgtagt	360
cctgtaatcc	cagctactca	ggaggctgag	acaggagaat	cgcttgaacc	tggtgaggtg	420
agggttcagt	gagccaagat	cgcgccactg	cactncaacc	tgggcaacag	agtgagactc	480
catctcaaaa	naannaaaaa	ggaaaatgcc	atttcttggt	cccantgcca	atatgcacca	540
agaatgttng	taggaactac	tttgggtctg	ctgcagaagt	tcttaatcta	gcattaaaaa	600
tccaacggtt	gatttgatct	cttaaaaatg	ttttcnnant	ttgganctga	aattgagnat	660
aaattacctt	tgcnnmntna	ttcaaaaangt	tnaacctnnt	tnann		705

<210> 263

<211> 656

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (656)

<223> n = A,T,C or G

<400> 263

acncgcttgt	accgagctcg	gatccctagt	aacggccgcc	agtgtgctgg	aattcgccct	60
tagcgtggtc	gcggccccgag	gtaccgcggg	ggagaacgcc	aggagctgt	gagagtgtgc	120
agtcgcgttc	ctgctgtccg	gacacttttt	tcctctactg	agactcatct	ggtagatccg	180
caggccagtc	ctcccagggg	ctgaagttgt	gaaatatggg	ttttctaaga	agattaatct	240
atcggcgtag	accaatgata	tatgtagaat	cttctgagga	gtccagtgat	gagcaacctg	300
acgaagtgga	atcaccaact	caaagtcagg	attctacacc	tgctgaagag	agagaggatg	360
aggagcatc	tgcagctcaa	gggcaggagc	ctgaagctga	tagccaggaa	ctggttcagc	420
caaagactgg	gtgtgagctt	ggagatggtc	ctgataccaa	gagggntnrg	ctgcgaaatg	480
aagagcagat	gaaactgccc	gnagaaggcc	agacctgann	cgatagcagg	acagttcccc	540
gaaactggtg	tagcgcgaat	gtctgtgtca	gagtgccctg	ccaatcaagg	agtgaacctt	600
gggaataagc	atccagctta	aagannccct	ganggttagt	gtctngtgaa	ttncct	656

<210> 264

<211> 752

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (752)

<223> n = A,T,C or G

<400> 264

ggnttgaang	tatacgactc	nctanggcga	attgggccct	ctagatgcat	gctcgagcgg	60
cccgccagtg	tgatggatat	ctgcagaatt	cgcccttagc	gtggtcgcgg	ccgaggtacc	120
tttgataatt	cctagacctc	tattttcatt	ctgtgtatta	atgtgaataa	cagatggata	180
ttttaatatt	taaggcagat	ggtaaaacttt	cctataggte	ttgtgagact	tcgtcttata	240
ggctgaacac	cattcacaaa	atgtaataat	gcttcattcc	ttcaggttga	ggtaaagaac	300
ttgagcaact	ggattagcaa	agctgcaaag	aatgaaatgt	ggcctaagat	gtaattatgt	360
tctctgccct	tcctttgggc	cagggtagtt	ttgcacttga	cacaatggaa	aataggccat	420
aaagcctgaa	aataaaatgt	tctaaacccc	aatctcacag	cacttttagta	ggcttttcac	480
taggcacctt	taaagtattt	tcaacaaaat	actaattaag	ctaccacttc	aaaagagctt	540
caaggaaaag	ctctgctttc	ttataaaaatc	tttttgagac	agagtttccg	ctctgttcag	600
cacaggctgg	agtgcattgg	ccgtgatctc	gactnaaccg	naaccttcgg	cctgctgggt	660

tcaagtgatt ctctagnccct caagcttctg agtaggttgg gattacaggg gcccggncaa 720
ccacacctgg gctaaatttt ggatttctan gn 752

<210> 265
<211> 747
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (747)
<223> n = A,T,C or G

<400> 265
gngnttttenc nnngcgctct anagcatgct cgagcggccg ccagtgtgat ggatatctgc 60
agaattcgcc cttagcgtgg tcgcgccga ggtaccttg atnattccta gacctctatt 120
ttcattctgt gtattaatgt gaataacaga tggatattgt aatatttaag gcagatggta 180
aactttccta taggtcttgt gagactnct cttataggct gaacaccatt nacnanntgt 240
antaatgctt nattccttca ggcngaggtn nanaacttga gcacctggat tagcagcagc 300
tgccaagaat gaaatgcngc ctaacatgta attatgnatc tctgnccttc ctttgggcca 360
gggtagtnat gcnctagaca cantggatga tangccatna agcctgannn tagnaatgatc 420
taaaccnnaa tctnncagca ctttattagg ctantcacta ggcactctta agagtnggtt 480
cccnttaata ctagncaacc nnccactcca aaanancctc aagganaagc tntgntntnt 540
tanaaaatct tttcgnnaca cantttnacn cttggcgenc angctggant gcaatggccg 600
tgatctctac tcacccgaan cctcngactg ctgagttcaa gtgattgtct gnccttanct 660
ctccgggacc angnttnggg attancaagc ctcgcgggca annacaggtg nctaattgnt 720
tgcattngcn taaaatnagg acaccng 747

<210> 266
<211> 738
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (738)
<223> n = A,T,C or G

<400> 266
cgnnmntgaa ggntacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cgcccgccag tgtgatggat atctgcagaa ttcgcccttt cgagcggccg cccgggcagg 120
tacagctgaa gtttgataac aaagaaatat atataagaca aaaatagaca agagttaaca 180
ataaaaaac aactatctgt tgacataaca tatggaaact tttgtcaga aagctacatc 240
ttcttaatct gattgtccaa atcattaaaa tatggatgat tcagtgccat tttgccagaa 300
attcgtttgg ctggatcata gattaacatt ttcgagagca aatccaagcc attttcatcc 360
aagtttttga catgggatgc taggcttctg gtttccattt gggaaatgta ttcttatagt 420
cctgtaaaga ttccacttct ggccacactt cattattggg agtgcccaa gctctgaaat 480
cctgaagagt tgatcaattc tgaatcccat ggaaaagtgg ttcttagtgc tagtcaacaa 540
atatngngc ctatactcca aaggtcactt ggagttgagt natggagctg accccagcat 600
acttttggaa aactggacca agtggttgca ccaccnttaa aaaatttaaa accggngta 660
ttttaataa ggtggaagaa accttttctt tttttattta aggaattcac ttagcnctta 720
ctaaattcat ggtggggg 738

<210> 267
<211> 731
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (731)
<223> n = A,T,C or G

<400> 267

gngnntttgn	aagggccctc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	ccctttcgag	cgcccgcccc	ggcaggtaca	gctgaagttt	gataacaaag	120
aaatatatat	aagacaaaaa	tagacaagag	ttaacaataa	aaacacaact	atctgttgac	180
ataacatatg	gaaacttttt	gtcagaaaagc	tacatcttct	taatctgatt	gtccaaatca	240
ttaaaaatag	gatgattcag	tgccattttg	ccagaaatcc	gtttggctgg	atcatagatt	300
aacattttcg	agagcaaatc	caagccattt	tcattccaagt	ttttgacatg	ggatgctagg	360
cttcctgggt	tccatttggg	aaatgtattc	ttatagtcct	gtaaagattc	cacttctggc	420
cacacttcat	tattgggagt	gccc aaagct	ctgaaaatcc	tgaagagttg	atcaatttct	480
gaatccccat	ggaaaagtgg	tttcttagtt	gctagttcag	caaatatggg	gcctatactc	540
caaagtcaa	ctggagttga	gtaatgagct	gacccagca	atacttctgg	agatctgtca	600
agtggttgca	acaccattaa	aaaatataaa	agcagtagtt	atattaaaat	aatgttgaag	660
aaaacatatn	cctatatatt	tnaaggaatt	tcactaagca	ctactaaatt	tcatgttgtt	720
gggangngtt	a					731

<210> 268

<211> 745

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(745)

<223> n = A,T,C or G

<400> 268

gnnnnntaa	agnanacntc	actatanngc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgcccagt	gtgatggata	tctgcagaat	tgcgccctttg	agcggccgcc	cgggcaggta	120
cttcccacac	aggtttgttg	taaaaattaa	gtgagctaag	gtgtataaaa	tacttcagtg	180
ctgaataaat	gttggctttt	attatatatt	gttaaaaaac	aacacaggct	gggtatgata	240
gctcacgcct	ataatcctag	catttagggg	ggccaaggca	ggaggattgc	ttgagtcctag	300
gggtttgaga	ccagcctggg	caacatagtg	agaccctatc	tctacaaaat	aaaataaatt	360
agttgggcat	ggtggcacat	gctgtagtc	ccagctactc	aggaggctga	ggtgggagga	420
ttgcttgagc	ccaggaggta	gaggttgcag	tgagctgtga	tcacaccact	gcactccagc	480
gtcggtgacg	gagtgagaac	ctatctcaaa	caaacaaaca	aaaaaaccca	aaacaaacaa	540
aaaaatccag	taaagacaga	gattcctaaa	attctacaat	tctaaaaacc	agtagggctc	600
actgaatata	agagaggcaa	gcaaaaaaatt	actccaatat	tttgagtttg	ggtaacctgg	660
aatatgggtc	atttattgag	taaatagtta	ctgagtccta	actatgtgcc	acacactggg	720
ttaacacttg	gcactgtctc	ttatg				745

<210> 269

<211> 730

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(730)

<223> n = A,T,C or G

<400> 269

gntnnnttt	tnaanccggt	cctnntgcat	gctcgagcgg	cccgccagt	tgatggatat	60
ctgcagaatt	cgccctttga	gcggccgccc	ggcaggtac	ttcccacaca	ggtttgttgt	120
aaaaattaag	tgagctaagt	tgtataaaat	acttcagtgc	tgaataaatg	ttggctttta	180
ttatatattg	ttaaaaaaca	acacaggctg	ggtatgatag	ctcacgccta	taatcctagc	240
atttagggag	gccaaaggcag	gaggattgct	tgagtcagg	ggtttgagac	cagcctgggc	300
aacatagtg	gaccctatct	ctacaaaata	aaataaatta	gttgggcatg	gtggcacatg	360
cctgtagtcc	cagctactca	ggaggctgag	gtgggaggat	tgcttgagcc	caggaggtag	420
aggttgcagt	gagctgtgat	cacaccactg	cactccagcg	tcggtgacgg	agtgagaacc	480
tatctcaaac	aaacaaacaa	aaaaacccaa	aacaaacaaa	aaaatccagt	aaagacagag	540
attcctaaaa	ttctacaatt	ctaaaaacca	gtagggctca	ctgaatataa	gagaggcaag	600

caaaaaatta	ctccaatatt	ttgagtttgg	gtaacctgga	atatgggtcat	tattgagtna	660
atagttactg	agtcctacta	tgtgccacaca	ctgggtnaac	acttgactg	tctcttatga	720
aatcttccan						730

<210> 270

<211> 713

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(713)

<223> n = A,T,C or G

<400> 270

aattggggccc	tctagatgca	tgtctgagcg	gccgccagtg	tgatggatat	ctgcagaatt	60
cgcccttttcg	agcggccgcc	cgggcaggta	caaaccaata	gctcctattc	tggaagggtt	120
tcttttttatt	taaaaaaaaat	tcaaacaagg	ttaaagtca	agcaagaagg	gaagagagaa	180
actgggttct	gagaaaaaaa	tgtgccagta	taaaataaac	tctaaatgc	gtgcttgta	240
tctctagtt	tttttttttaa	gttgaatttc	ttttccactg	taacttaaga	tttgagattg	300
aggtttgccg	tccagaacat	accctcagca	gatacagtga	ctaactggaa	agtgcagttg	360
ttcaagggtct	gtcatgctca	atcacctaaa	gctataattt	gnttgatata	ttaagcatgt	420
agacctagt	cagcatggga	gccactcagg	aagtttatgc	aattaataaa	ctttcagcat	480
aattttactat	gaagtatgca	gaatttcacc	ctcttctcca	cacttaacat	ttagttgtat	540
atgtgaactc	tcttttctta	attgggggaat	gtagcattat	atagaatgtt	gntaaaggta	600
attttaatcc	tttttgacat	taaccttttt	tttttttggg	aaaccaagtg	atctgccttt	660
cagcaactgg	cttatttttg	gtctttgaaa	ctgngatttt	tatttcattn	gnc	713

<210> 271

<211> 702

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(702)

<223> n = A,T,C or G

<400> 271

gnctcgagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgcccttttcg	agcggccgcc	60
cgggcaggta	caaaccaata	gctcctattc	tggaagggtt	tcttttttatt	taaaaaaaaat	120
tcaaacaagg	ttaaagtca	agcaagaagg	gaagagagaa	actgggttct	gagaaaaaaa	180
tgtgccagta	taaaataaac	tctaaatgc	gtgcttgta	tctctagtt	tttttttttaa	240
gttgaatttc	ttttccactg	taacttaaga	tttgagattg	aggtttgccg	tccagaacat	300
accctcagca	gatacagtga	ctaactggaa	agtgcagttg	ttcaagggtct	gtcatgctca	360
atcacctaa	agctataatt	tgtttgatat	attaagcatg	tagacctagt	gcagcatggg	420
agccactcag	gaagtttatg	caattaataa	actttcagca	taatttacta	tgaagtatgc	480
agaatttcac	cctcttctcc	acacttaaca	tttagttgta	tatgtgaact	ctcctttctt	540
aattgggggaa	tgtncattat	atagaatgtt	ggtaaaggta	attttaatcc	tttttgacat	600
taaccttttt	tttttttttg	ttaaaccaagt	gatctgnctt	ttaacaactg	gcttatttgg	660
gtcctttgna	actgggaatt	ttatttcatt	tgnnccctgg	cc		702

<210> 272

<211> 736

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(736)

<223> n = A,T,C or G

<400> 272

gmnnttttgan	nnnnnnnnnn	ntatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	agcgggccgc	cgggcaggta	120
ctttttttta	ttcctcagtt	aaaacatgcc	tggtattctt	tttgtaatac	ttaagcaatt	180
ttatttttaa	gatatactac	ttagttcatc	cgtctccact	tggttttttt	ttttgnnant	240
anngggttgg	ttccnttaan	nccacnggtt	ttaaancat	nnngtcnnn	ggnaaattan	300
mnttantnat	taaanntnnn	tncntngca	aanntccagn	taaaatttta	gtgggggggg	360
gggggttant	acnggnaann	aattaantnc	nggnaatan	tttaannntt	ggnaangnac	420
nntngnnnta	annattattt	nnttnanntt	tttaataann	annaatttta	ntttgnaacn	480
ntggntttta	ntaannggaa	annccaatta	attgggttgg	tgnaattttt	ccagnaaccn	540
ntccntgggc	nggaacncc	ntangggnaa	nttcnagnnn	ntngngggcn	gtncnnaggg	600
nnccaacnt	nggccancn	tgngggaann	nnnggchnna	nnggttcccn	ggggnaaatg	660
gtattcngtt	cnaatccnnc	aantccaac	ccggagnctt	aangggtaan	nccngggggg	720
cntannagn	gcctaa					736

<210> 273

<211> 715

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (715)

<223> n = A, T, C or G

<400> 273

gngnttttnc	ganngnnnnn	nnnnctgct	cgagcggccg	ccagtgtgat	ggatatctgc	60
agaattcgcc	ctttcgagcg	gccgcccggg	caggtacttt	tttttatcc	tcagttaaaa	120
catgcctgtt	attctttttg	taataacttaa	gcaattttat	tttaaagata	tactacttag	180
ttcatccgtc	tccacttggt	tttttttttt	gnnantanng	ggttggttgc	nttaanncna	240
cnggtnttaa	anccannnnn	gtcnnnggna	aattannntt	antcnntaaa	mntnnnnnnc	300
ntggnaannn	tccagntaaa	atttnagtgg	gggggggggg	ttaattancg	gnaannantt	360
aantnccgga	naatanttta	annnttgga	angnacnttn	gnntaagna	ttatttnntt	420
cannttttta	atnantanna	attttaattt	gnaancntgg	ntttannaa	nnggaaannc	480
caattaattg	gttggttgna	ttttcccgag	naaccnnc	ntgggcngga	acancntaa	540
ggncaaatcn	accaantgnc	ggcgtacna	aggggatcca	acntngggcc	ancctggng	600
naataatggc	cnaantgggt	nccnggggna	aatggnatte	cgttcaaatt	ccnccanntc	660
cnaccgggag	ccttaagngg	taaacctggg	ggcctaangg	ggggcctaac	tcaat	715

<210> 274

<211> 746

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (746)

<223> n = A, T, C or G

<400> 274

gnnntnnan	gnntacgact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cggccgcccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtgggtcg	ggccgaggta	120
ccaggtgggc	tgacgcacat	cccctaaaca	ttctggatct	cttactcatc	gtgaaaggca	180
gacgtcttaa	gtctaaagtc	tagggtagga	gtttccattc	tttgaaaaac	caaagatggt	240
tactcttctt	aatgaaactg	agaagaaggt	atctacagaa	aacactgaat	ttaaacaat	300
tatgaccttg	ttgttggaag	ccatcaagat	cccaagatat	atcaaagaac	aacatctctg	360
tattggccta	caggttcaga	gtgttttgag	gtctgtttta	gcactaatag	gatttttaggc	420
cagcatccag	tcagaagaga	tagttcacag	actcagagtt	ggaaacagat	taaaaaaaaa	480
aagatgtcaa	catagaaaat	gatgatagag	tttagttaaa	aaaattcaca	cataaaatta	540
cagttaaaaa	aattcacaca	taaaatagag	tgtttgcata	gcaagacatt	attgcccttc	600
agcctggcag	aaaaacataa	actcaggtgt	atattttata	ataaacattg	nattgaatgc	660
taagaatgat	acactggtga	acatctnctg	aatggttgcc	ttcttgtaaa	tcataccaat	720

tggttagaca attgaaattn ccagct

746

<210> 275

<211> 725

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(725)

<223> n = A,T,C or G

<400> 275

gnnnttaann	ccttcctnt	anatgcatgc	tcgagcggcc	gccagtgga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggtaccagg	tgggctgacg	cacatcccct	120
aaacattctg	gatctcttac	tcacgtgaa	aggcagacgc	tctaagtcta	aagtctaggg	180
taggagtttc	cattcttttg	aaaaccaaag	atggttactc	ttcttaatga	aactgagaag	240
aaggatatcta	cagaaaacac	tgaatttaaa	caaattatga	ccttgtttgt	tgaagccatc	300
aaggacccaa	gatatatcaa	agaacaacat	ctctgtattg	gcctacaggt	tcagagtgtt	360
ttgaggtctg	tttaagcact	aataggattt	taggccagca	tccagtcaga	agagatagtt	420
cacagactca	gagttggaaa	cagattaaaa	aaaaaaagat	gtcaacatag	aaaatgatga	480
tagagtttag	ttaaaaaaat	tcacacataa	aattacagtt	aaaaaaattc	acacataaaa	540
tagagtgttt	gcatagcaag	acattattgc	ccttcagcct	ggcagaaaaa	cataaactca	600
ggtgtatatt	ttataataaa	cattgnattg	aatgctaaga	atgatcactg	ttgaacatct	660
cctgaatggg	ttgccttctt	gtaaatcata	ccaatgggta	gacaattgaa	attccagctc	720
tttct						725

<210> 276

<211> 744

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(744)

<223> n = A,T,C or G

<400> 276

nnnnntgann	gtatacgact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cggccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtgggcgc	ggccgaggta	120
cttctgctgt	ggtaactcaa	gtaaccctcc	gtttaaacca	ggacagacct	atgctgacaa	180
ccatttttat	cactcttagt	ggtattttct	ttctttgaac	atgaatgcat	atttctgctc	240
tttaatggcc	tttggtattt	aagattacat	tcagctagtc	tccttattgc	atggtgtttt	300
attccagtc	caccagcact	cagaacaaca	gcaagtgtgt	gtaacagcgg	gcacaggcgc	360
tccagacgga	aggacctcac	tgacgcagtt	agctcaggta	gagcttattt	ctgtgttcaa	420
ttttcttgtc	atgagaagca	gtgaccctta	agaatttgta	tccctttgtt	cacttctttg	480
ttttaggaga	gaaacttcta	aagcattact	ctaaaagggtg	atagagacag	agacggggcca	540
ttttcatcta	ccccttgtag	agttaagttt	tattacagta	agttgtgagg	tgagacatga	600
tggctgcagg	cacatagtca	agatctaccc	ttctaaggaa	ataaaacggg	gaaaagtggg	660
tgaatgtcca	atatagaaaa	tttaatcacc	actttcccaa	aaaagaataa	atggaggact	720
ncattggaat	tatggaaatg	aan				744

<210> 277

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 277

gnnnnttneg	antgggcccct	ctagatgcat	gctcgagcgg	ccgccagtgt	gatggatatc	60
tgcagaattc	gcccttagcg	tggtcgcggc	cgaggtactt	ctgctgtggt	aactcaagta	120
accctccgtt	taaaccagga	cagacctatg	ctgacaacca	tttttatcac	tcttagtggt	180
attttctttc	tttgaacatg	aatgcatatt	tctgctcttt	aatggccttt	ggtatttaag	240
attacattca	gctagtctcc	ttattgcatg	ttgttttatt	ccagtccac	cagcactcag	300
aacaacagca	agtgtgtgta	acagcgggca	caggcgctcc	agacggaagg	acctcactga	360
cgcagttagc	tcaggtagag	cttatttctg	tgttcaattt	tcttgtcatg	agaagcagtg	420
accctaaga	atttgtatcc	ctttgttcac	ttctttgttt	taggagagaa	acttctaaag	480
cattactcta	aaaggtgata	gagacagaga	cgggccattt	tcactctacc	cttgacagag	540
taagttttat	tacagtaagt	tgtgaggtga	gacatgatgg	ctgcaggcac	atagtcaaga	600
tctacccttc	taaggaaata	aaacggggaa	aagtgggtga	atgtccaata	tagaaaattt	660
aatcaccact	ttccaaaaaa	gaataaatgg	aggactncat	tgtattatg	gaaatgaaat	720
ttgg						724

<210> 278

<211> 748

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (748)

<223> n = A,T,C or G

<400> 278

gnnnntgaaa	gtatacgact	cactataggg	cgaattgggc	cctctagatg	catgetcgag	60
cggcccgcga	gtgtgatgga	tatctgcaga	attcgccctt	tcgagcggcc	gcccgggcag	120
gtacagctgc	ccaagggcgt	tcgtaacggg	aatgccgaag	cgtgtgaaaa	agggagcggg	180
ggcggaagac	ggggatgagc	tcaggacaga	gccagaggcc	aagaagagta	agacggccgc	240
aaagaaaaat	gacaaagagg	cagcaggaga	gggcccagcc	ctgtatgagg	acccccaga	300
tcagaaaacc	tcacccagtg	gcaaacctgc	cacactcaag	atctgctctt	ggaatgtgga	360
tgggcttcga	gcctggatta	agaagaaagg	attagattgg	gtaaaggaag	aagccccaga	420
tatactgtgc	cttcaagaga	ccaaatgttc	agagaacaaa	ctaccagctg	aacttcagga	480
gctgcctgga	ctctctcatc	aatactggtc	agctccttcg	gacaaggaag	ggtactagca	540
actaaccatg	gttaaaagggt	cttagtcaga	attacaaaaa	caaaacattt	agagtaatac	600
ttatgaatac	aagcataatt	ggttcctcgc	cttctacaaa	taaccatctt	gaaaatgata	660
aaagcaggtt	tcaactgtgg	tcttctctca	ttgagaaggt	gcagatacac	atgggtgatc	720
tactgattta	ccttcttgaa	agtnctcg				748

<210> 279

<211> 727

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (727)

<223> n = A,T,C or G

<400> 279

gnnnnttcga	ntgggcccctc	tngngcatgc	tcgagcggca	cgccagtgtg	atggatatct	60
gcagaattcg	cccttttcgag	cggccgcccc	ggcaggtaca	gctgcccagg	ggcggttcgta	120
acgggaattg	cgaagcgtgt	gaaaaagggg	gcgggtggcg	aagacggggg	tgagctcagg	180
acagagccag	aggccaagaa	gagtaagacg	gccgcaaaga	aaaatgacaa	agaggcagca	240
ggagagggcc	cagccctgta	tgaggacccc	ccagatcaga	aaacctcacc	cagtggcaaa	300
cctgccacac	tcaagatctg	ctcttggaat	gtggatgggc	ttcgagcctg	gattaagaag	360
aaaggattag	attgggtaaa	ggaagaagcc	ccagatatat	tgtgccttca	agagaccaa	420
tgttcagaga	acaaactacc	agctgaactt	caggagctgc	ctggactctc	tcatcaatac	480
tggtcagctc	cttcggacaa	ggaaggggtac	tagcaactaa	ccatgggtta	aaggtcttag	540
tcagaattac	aaaaacaaaa	catttagagt	aatacttatg	aatcaagcat	aattggttcc	600
tcgccttcta	caaataccat	ctttgaaaat	gatnaaaagc	aggtttcaac	tgtggttcct	660

ctctcanttg aaaagggtcag atcccatggg tgatctactg atttaccttc tgaaaagtac
ttggccg

720
727

<210> 280
<211> 751
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

<400> 280
gnnmntgann gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cgccgccag tgtgatggat atctgcagaa ttccgcccta gcgtggtcgc ggccgaggta 120
ctcatgtatt tttttttttt tccagatctc tttccccaag ttgctattgt aagagtattc 180
tgctgcgtgt ggatgcagtt atacacatta aagcagatct ggagtctgaa gtagctataa 240
agcagctata aaacagaaat acatgcatag ctgcagaaac catgatagggt agaggacttt 300
tcttttggtt ttgttttggt ttgttttggt ttgtttttgg ttttacagag aagagatttt 360
tattacaaaag aaaaaaattc cagtgaattg tgcagaaatg ctggttttta caccatccta 420
aagaaaaact ttacaagggt gttttggagt agaaaaaagg ttataaagtt ggaatcctaa 480
attgtaaaat taaccattga gtgtcaaatg tctaaaagca gaactcattt tgtgcaatga 540
acataaggaa agactactgn ataggttttt tttttctcct tttaaatgaa gaaaagcttt 600
gcttaagggt tgcatacttt tattggagta aatctgaatg atcctactcc tttggagtaa 660
aactagtgtc taccagtttc caattggatt taacttctgg ggtggaattt ggaaaaaaa 720
agaannnnngg aaaaagaaaa cctaanttaa n 751

<210> 281
<211> 727
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(727)
<223> n = A,T,C or G

<400> 281
gnnnttcgan tgggccctct agatgcattg tcgagcggcc gccagtgtga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcggccg aggtactcat gtattttttt tttttccag 120
atctctttcc ccaagttgct attgtaagag tattctgctg cgtgtggatg cagttataca 180
cattaaagca gatctggagt ctgaagtagc tataaagcag ctataaaaca gaaatacatg 240
catagctgca gaaaccatga taggtagagg acttttcttt tggttttggt ttgttttggt 300
ttgttttggt tttggtttta cagagaagag atttttatta caaagaaaaa aattccagtg 360
aattgtgcag aaatgctggg ttttacacca tcctaaagaa aaactttaca aggggtgttt 420
ggagttagaaa aaagggtata aagttggaat cttaaattgt aaaattaacc attgagtgtc 480
aaagttctaa aagcagaact cattttgtgc aatgaacata aggaaagact actgnatagg 540
tttttttttt ctctttttaa atgaagaaaa gctttgctta aggggttgcac acttttattg 600
gagtaaatct gaatgatcct actccttttg agtaaaacta gngcttccag tttccaattg 660
gatttaactt ctggntggaa tttgnaaaaa aaagaanaaa aggaaaanga aaccctaant 720
naaatag 727

<210> 282
<211> 749
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(749)
<223> n = A,T,C or G

<400> 282
 tnnaaagnaa gctctttact cactatnngg gccaattggg cctctagat gcatgctcga 60
 gcggccgcca gtgtgatgga tatctgcaga attctnccct cgagcggccg cccgggcagg 120
 tacttttttt tttttttttt tttttttttt ttttttnaaac tactaggatt tactgttagga 180
 taaaagctnt acatggccct gcntacaaac tttctgcata cttctgcaaa tttttatgcn 240
 ttactnaatc cattaataat caccttgga naaactgcaa acncantana aactaaatga 300
 natagtcaca gagaacanca aaaatagtaa ttnaagtcc catacaacat caagtgtgtn 360
 cagtctattt tnggttcttc ggggttctct taaaattgaa ttgagtttgn atatgcatat 420
 gtatgttagga gtggaggatg gaattaatta tcccaaacat cctacantca ctctctaat 480
 atttctttng ttaacatgca aatctgttct cttcattacg gngatactgc atttacatta 540
 caacacantt agagatcatt aactttctcc tttataatca gccattttca caggcctttg 600
 atatacaagc acctataata tattcttact catctcacac tttcatttac caaagtgtca 660
 aaacaacatt tttacatcat tgatatttgg ttnantttct gcaantggc tgttanaaaa 720
 tgattacttc tnttaaatta ctttttanc 749

<210> 283

<211> 730

<212> DNA

<213> Homo Sapien

<220>

<221> misc feature

<222> (1) ... (730)

<223> n = A,T,C or G

<400> 283
 gtctntgaan cnggnccctt ngatgcatgc tcgagcggcc gccagtgtga tggatatctg 60
 cagaattcgc ccttcgagcg gccgcccggg caggtaactt tttttttttt tttttttttt 120
 tttttttttt aaactactag gatttactgt aggataaaag cntacatgg ccttcgatac 180
 aaactttntg cactactntg caaattttta tgcattactc aatccattaa aaatcacctt 240
 ggaanaaact gcaaacncaa tagaaactaa atganatagt cacagagaac aacaaaaata 300
 gtaatttaag ttccataca acatcaagtg tgttcagtct atttttgggt cttcgggttc 360
 tctttaaaat tgaattgagt ttgtatatgc atatgtatgt aggantggag gatggaatta 420
 attatcccaa acatcctaca ctccactctc taatatttct tttgttaaca tgcaaactctg 480
 ttctcttcat tacgnggata ctgcatttac attacaacac aattagagat cattaacttt 540
 ctcttttata atcagccatt ttcacaggcc tttgatatac aagcacctat aatatattct 600
 tactcatctt acactttcat ttaccaaagt gtcaaaaaca acatttttac atcattggat 660
 atttggttta gtttctgcaa nctggctttt anaaaaatga ttacttctct taaattacct 720
 tttaccctca 730

<210> 284

<211> 739

<212> DNA

<213> Homo Sapien

<220>

<221> misc feature

<222> (1) ... (739)

<223> n = A,T,C or G

<400> 284
 gnnntnaaag tatacgactc actatagggc gaattgggccc ctctagatgc atgctcgagc 60
 ggccgccagt gtgatggata tctgcagaat tcgcccttag cgtggctcgc gccgaggtac 120
 aacataaagc aacagagagg tcttcatgtt tgggaagtgg ctgggcagga tgccaaaccc 180
 caaatgactt attgagcaat ttctaaacca aacagagagg taggaaaaga ggatgggggt 240
 cagggggtgga ggctgtggaa aggggagagc gagggctgaa gagaatggca gccatacagg 300
 tgttttgttt ttatttccac atctgaggac tgagagtctg atttgctgcc tgtccatttc 360
 cgccactcat tgactgtcca tagttcatca tgccattggc tccatagaag ttcateccag 420
 ccatctgctg ggtcatctga gtaaggttcc attgcagctg ctgagctggc tggaccocat 480
 acacagtctg gggcatagct gccatgcctg ccatgtagcc agcctgctgg gtggctcatca 540
 ttccattcgg cacacccatc attgatgctt gcatgccacc catatagcct gcaggcatgg 600

ccatgggggc	aaccatccca	gaactnctgc	tgagcaacca	tgctactgg	tggaagcatc	660
atgcttccca	ttatgctgtt	angangtgta	ccccngggaa	actggggtag	ctgtgggata	720
tccatctgan	cgggaccat					739

<210> 285

<211> 721

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(721)

<223> n = A,T,C or G

<400> 285

gnnnttcgan	tgggccctct	ngatgcatgc	tcgagcggcc	gccagtgtga	tgatattctg	60
cagaattcgc	ccttagcgtg	gtcgcggcac	gaggtacaac	ataaagcaac	agagaggtct	120
tcatgttttg	gaagtggctg	ggcaggatgc	caaaccctaa	atgacttatt	gagcaatttc	180
taaaccctaa	agagaggtag	gaaaagagga	tggggggtcag	gggtggaggc	tgtggaaagg	240
ggagagcag	ggctgaagag	aatggcagcc	atacaggtgt	tttgttttta	tttccacatc	300
tgaggactga	gagctcgatt	tgctgcctgt	ccatttccgc	cactcattga	ctgtccatag	360
ttcatcatgc	cattggctcc	atagaagttc	atcccagcca	tctgctgggt	catctgagta	420
aggttccatt	gcagctgctg	agctggctgg	accccatata	cagtctgggg	catagctgcc	480
atgcttgcca	tgtagccagc	ctgctgggtg	gtcatcattc	cattcggcac	acccatcatt	540
gatgcctgca	tgccacccat	atagcctgca	ngcatggcca	tgggggcaac	catcccagaa	600
ctcctggctg	agcaaccatg	cctactgggtg	gangcatcat	gcttcccat	atgctgttag	660
gangtgacc	ccggggaanc	tggggtagct	gtgggatata	catttaaccg	gagccatgaa	720
c						721

<210> 286

<211> 757

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(757)

<223> n = A,T,C or G

<400> 286

gnnnnttaaa	gnntacgact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cggcccgcga	gtgtgatgga	tatctgcaga	attcgccctt	tcgagcggcc	gcccgggcag	120
gacgcggggg	ttgcaccatg	gcgtccatgg	ggaccctcgc	cttcgatgaa	tatgggcgcc	180
ctttcctcat	catcaaggat	caggaccgca	agtcccgctc	tatgggaatt	gaggccctca	240
agtctcatat	aatggcagca	aaggctgtag	caaatacaat	gagaacatca	cttggaccaa	300
atgggcttga	taagatgatg	gtggataagg	atggggatgt	gactgtaact	aatgatgggg	360
ccaccatctt	aagcatgatg	gatgttgatc	atcagattgc	caagctgatg	gtggaaactgt	420
ccaagtctca	ggatgatgaa	attggagatg	gaaccacagg	agtgggtgtc	ctggctgggtg	480
ccttgttaga	agaagcggag	caattgctag	accgaggcat	tcacccaatc	agaatagccc	540
gatggctatg	agcaggctgc	tcgcgttgct	attgaacacc	tggaacaagat	cagcgatagc	600
gtccttggtg	acataaagga	caccgaaccc	ctgattcaga	cagcaaaaaa	ccacgctggg	660
cttncaaaa	tggtcaacag	ttgtcaccca	cagatggctt	gaaaattgct	gtgaaatgcc	720
cgctcctact	gtaaccagat	atngaaccgg	aaaagac			757

<210> 287

<211> 726

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(726)

<223> n = A, T, C or G

<400> 287

gmnmnactga	tttctggctc	gaagttgnat	ntgcggncgc	cagtgtgatg	gatatctgca	60
gaattcgccc	tttcgagcgg	ccgcccgggc	aggacgcggg	ggttgaccca	tggcgtccat	120
ggggaccctc	gccttcgatg	aatatgggcg	ccctttcctc	atcatcaagg	atcaggaccg	180
caagtcccg	cttatgggac	ttgaggccct	caagtctcat	ataatggcag	caaaggctgt	240
agcaaatata	atgagaacat	cacttggaac	aaatgggctt	gataagatga	tgggtggataa	300
ggatggggat	gtgactgtaa	ctaattgatg	ggccaccatc	ttaagcatga	tggatgttga	360
tcacagatt	gccaaagctga	tgggtggaact	gtccaagtct	caggatgatg	aaattggaga	420
tgggaaccaca	ggagtgggtg	tcctggctgg	tgcttgttta	gaagaagcgg	agcaattgct	480
agaccgaggc	attcacccaa	tcagaatagc	ccgatggcta	tgagcaggct	gctcgcgttg	540
ctattgaaca	cctggacaag	atcagcgata	gcgtccttgn	tgacataaag	gacaccgaac	600
ccctgattca	gacagcaaaa	accacgctgg	gctccaaaag	tgggtcaacag	ttgtcaccga	660
cagatggctg	aaaatgctgt	gaatgccgtc	ctnctgtanc	agatatngaa	ccggaaaaga	720
ccttga						726

<210> 288

<211> 743

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (743)

<223> n = A, T, C or G

<400> 288

gmnntganng	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgccagt	gtgatggata	tctgcagaat	tcgcccttcg	gccgcccggg	caggtagcctt	120
ttacctaaaa	ttctagccac	tttaatttgg	agagtttcca	gagcaaaggg	cacagatccc	180
aggcataaca	acgcttttgcg	tatacagcaa	ccaatatctt	gtcaacccaa	gaaagttcct	240
ccattgatac	ctagtagaaa	tagcccagtt	tttaaagtcc	tcaaaactgt	aacaaattac	300
ttgtttttta	aatttaactt	aaattaatac	aatcagattt	ttgtgttatt	tgggtattag	360
agtatgttaa	agcacatata	tcccagagac	atagagtttc	cgtttcaaaa	agtcatgcat	420
tcattgtgtg	taatgacaat	cctatcctga	cccgctatgt	gacttgtatc	tctaaaccat	480
aggctttcct	gaatttttatc	tgttaattta	accctgattt	ctcagcagca	gcttctcttt	540
gtaaatagac	ttgcctcttc	tgtgtctgac	ctctgtctct	cataatcaga	ttactcaga	600
taaagctgct	tcagggaaga	ggtcaaaacc	gttgccaaaa	atagtagttg	cctacttca	660
gtctattttc	aacagagtag	cccaggagat	ctgtcacacc	aaagtccaat	cagccctact	720
ggtagcactc	tgntcacaag	ccn				743

<210> 289

<211> 726

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (726)

<223> n = A, T, C or G

<400> 289

gmnmnactc	gcagtcctgc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttcggcc	gcccgggcag	gtacctttta	cctaaaaattc	tagccacttt	120
aatttggaga	gtttccagag	caaagggcac	agatcccagg	cataacaacg	ctttgcgtat	180
acagcaacca	atatcttgtc	aacccaagaa	agttcctcca	ttgataccta	gtagaaatag	240
cccagttttt	aaagtectca	aaactgtaac	aaattacttg	tttttaaaat	ttaacttaaa	300
ttaataacaat	cagatttttg	tgttatttgg	gtattagagt	atgttaaagc	acatatatcc	360
cagagacata	gagtttccgt	ttcaaaaagt	catgcattca	tgtgtgctaa	tgacaatcct	420
atcctgacct	gctatgtgac	ttgtatctct	aaaccatagg	ctttcctgaa	ttttatctgt	480
taatttaacc	ctgatttctc	agcagcagct	tctcttttga	aatagacttg	cctcttctgt	540

gtctgacctc	tgtctctcat	aatcagatta	actcagataa	agctgcttca	gggaagaggt	600
caaaaccgtt	gcaaaaaata	gtagttgccc	tacttcagtc	tattttcaac	agagtagcca	660
ggagatctgt	tcacaccaa	gtccaatcag	ccctactggt	agcactctgc	tcacaagcct	720
ncagtg						726

<210> 290

<211> 740

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(740)

<223> n = A,T,C or G

<400> 290

gnnnnngaaag	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgccaggt	gtgatggata	tctgcagaat	tcgcccttag	cgtggtcgcg	gccgaggtac	120
ccagatgtct	ttctcggta	ccttcccag	accatttaag	acctccctag	ctgctcgctc	180
tccagcctca	actgcccctt	ccatgtagcc	gctccacttt	gtggcagctc	ctgtgcccgc	240
aaagaaaatc	ctgcccacgg	gttgacgaat	cacccttcca	tattgagtca	tgatcccagg	300
agggaagtag	gccgtgtagc	agccccaga	gtacctgccc	gggcggccgc	tcgaaagggc	360
gaattccagc	acactggcgg	ccgttactag	tggatccgag	ctcggtagca	agcttggcgt	420
aatcatggtc	atagctgttt	cctgtgtgaa	attgttatcc	gctcacaatt	ccacacaaca	480
tacgagccgg	aagcataaag	tgtaaagcct	ggggtgccta	atgagtgcgc	taactcacat	540
taattgcgtt	gcgctcactg	cccgttttcc	agtcgggaaa	cctgtcgtgc	cagctgcatt	600
aatgaatcgg	ccaacgcgcc	ggggagaggc	ggnttgcgta	ttgggcgctc	ttncgctttc	660
tngctcactg	actcgtcgcg	ctcggtcggt	cggctgcggc	nagcgggtatc	agctcattaa	720
angcggtaat	acggtatccn					740

<210> 291

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 291

gnnnnnnncna	ntgggccctc	tngngcatgc	tcgagcggcc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggtaccag	atgtctttct	cggtcacctt	120
cccagagacca	tttaagacct	ccctagctgc	tcgttctcca	gcctcaactg	ccccttccat	180
gtagccgctc	cactttgtgg	cagtctctgt	gcccgcgaag	aaaatcctgc	ccacgggttg	240
acgaatcacc	cttccatatt	gagtcattgat	cccaggaggg	aagtaggccg	tgtagcagcc	300
cccagagtac	ctgcccgggc	ggccgctcga	aagggcgaat	tcagcacac	tggcggccgt	360
tactagtggga	tcgagctcgc	gtaccaagct	tggcgtaatc	atgggtcatag	ctgtttcctg	420
tgtgaaattg	ttatccgctc	acaattccac	acaacatacg	agccggaagc	ataaagtgtg	480
aagcctgggg	tgoctaatga	gtgagctaac	tcacattaat	tgcgttgccg	tcactgcccc	540
ctttccagtc	gggaaacctg	tcgtgccagc	tgcattaatg	aatcggccaa	cgcgcgggga	600
gaggcggttt	gcgtattggg	cgtcttccgc	cttctcgcgt	cactgactcg	ctgcgcttng	660
nccgtccggt	tgccgcagcg	gtataactna	ctcaaaggcg	gtaataccgg	tatncacaga	720
atca						724

<210> 292

<211> 740

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(740):

<223> n = A,T,C or G

<400> 292

gnnnnngnang	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtgggcgc	ggccgaggta	120
cagaaagaat	caaagaacat	atatatatat	taagtttcat	tccaacctac	aaagagcctg	180
cacttaaaag	tcttaaagg	ttcctgaatc	atggaaatctc	aacttacctg	ccaattaatc	240
cagttctctc	tttttaaatg	cagactccaa	ccttaaacag	aaggcatatt	ctagctgact	300
tctaagtgtg	tccaaagcat	acctcagaga	gccaagtgg	ctgtgttcaa	tacctattct	360
ttctatagaa	tctcaaaagt	ggcagtatga	tgaagagaaa	agctactttt	tctcctaaaa	420
ataccccct	tcacatcag	tgtgtgtgca	tttttgcac	acaaagaata	gacattctaa	480
atgttccctt	ccacacagaa	agacataaga	gagaatgtga	gtatgagtga	gagtggtgtag	540
gtaagttgag	ggatagtttg	ctatccaaaa	tgaatcattt	tgaagatgac	tttgtaaaga	600
agtaatatag	ttaaaaatct	caagacatga	gattgangan	ggcagggaaa	taaaggacct	660
angaatggaa	aagagttaca	gcccattgtga	atacatcac	aaacctacca	ggttatttct	720
ngaaattctc	acacagggtg					740

<210> 293

<211> 723

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(723)

<223> n = A,T,C or G

<400> 293

gnnnnnnncn	annggccctc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttagcgt	ggtcgcggcc	gaggtacaga	aagaatcaaa	gaacatatat	120
atatattaag	tttcattcca	acctacaaag	agcctgcact	taaaagtctt	aaaggtttcc	180
tgaatcatgg	aatctcaact	tacctgccaa	ttaatccagt	tctctctttt	taaagtcaga	240
ctccaacctt	aaacagaagg	catattctag	ctgacttcta	agtgtgtcca	aagcatacct	300
cagagagcca	agtggtctgt	gttcaatacc	tattctttct	atagaatctc	aaaagtggca	360
gtatgatgaa	aagaaaagct	actttttctc	ctaaaaatac	cccccttcat	catcagtgtg	420
ttgtcatttt	tgcatacaca	agaatagaca	ttctaaatgt	tcccttccag	acagaaagac	480
ataagagaga	atgtgagtat	gagtgagagt	gtgtaggtaa	gttgagggat	agtttgctat	540
ccaaaatgaa	tcattttgaa	gatgactttg	taaagaagta	atatagttaa	aaatctcaag	600
agcatgatag	tganganggc	agggaaataa	angcctagga	atggaaaaga	gttaacagcc	660
catgtgaata	catagcaca	acctaccagg	ttatttctgg	gaatctnacc	agtttgctgg	720
aaa						723

<210> 294

<211> 736

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(736)

<223> n = A,T,C or G

<400> 294

gnnnnnnnna	gaccgactca	ctatagggcg	aattggggcc	tctagatgca	tgctcgagcg	60
gcccgcagtg	tgatggatat	ctgcagaatt	cgccctttcg	agcggccggc	cgggcaggta	120
cctgggatta	caggcaccca	ccaccacgcc	tggtcaattt	ttttttgtat	cttttagtagg	180
gttttgccat	gttggccagg	ctggtcttta	actcctacct	cgtgatccac	ccgcctcggc	240
cccccaaagt	gctaggacca	caggcgtgag	ccaccacgcc	cagccccctg	tctctttttt	300
taaaacacaa	tttaaaagca	gaaagaaaaa	atctgtgctg	tttagactca	gattcttaat	360
tagctagtat	ttcttaattc	aatcaataaa	ttattaagac	cttttctactg	ctcccttttt	420
aaagtcttct	ttggagtgtat	ttaagtgtct	cttattacca	agctctcaaa	gagaagataa	480

aattaaaatc	tgatgggtaa	ccattttaat	aagacaactg	gggtaaccca	tttctccagg	540
acccctctct	gcaacagaga	gctattctct	ttctttggcc	tagtaaacct	ctgctcttaa	600
cctttaaaaa	aaaaaaaaaa	gtacctcggc	cgcgaccacg	ctaanggcca	attccagcac	660
actggcggcc	gttactagt	gatccgaact	cgggtccaact	tggcgtaatc	atggcatagt	720
ggttctctng	tgaaan					736

<210> 295
 <211> 725
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(725)
 <223> n = A,T,C or G

<400> 295						
gnnnnnnnnn	annngccct	ctagatgcat	gctcgagcgg	ccgccagtgt	gatggatatc	60
tgcagaattc	gccctttcga	gcggccgccc	gggcaggtag	ctgggattac	aggcaccac	120
caccacgcct	ggctaatttt	tttttgatc	tttagtaggg	ttttgccatg	ttggccaggc	180
tggtctttta	ctctacctc	gtgatccacc	cgcctcgccc	cccaaaagt	ctaggaccac	240
aggcgtgagc	caccacgccc	agccccctgt	ctcttttttt	aaaacacaa	ttaaaagcag	300
aaagaaaaaa	tctgtgctgt	ttagactcag	attcttaatt	agctagtatt	tcttaattca	360
atcaataaat	tattaagacc	ttttcactgc	tcccttttta	aagtcttctt	tggagtgtatt	420
taagtgtctc	ttattaccaa	gctctcaaag	agaagataaa	attaaaatct	gatgggtaac	480
catttaataa	agacaactgg	ggtaacccat	ttctccagga	cccctctctg	caacagagag	540
ctattctctt	tctttggcct	agtaaacctc	tgctcttaac	ctttaaaaaa	aaaaaaaaag	600
tacctcgccc	gcgaccacgc	taagggcgaa	ttccagcaca	ctggcgcccg	ttactagtgg	660
atccgaactc	ggtaccaagc	ttgcgtaatc	atggcatagc	tggttcctgt	gtgaaatggt	720
atccg						725

<210> 296
 <211> 742
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(742)
 <223> n = A,T,C or G

<400> 296						
gnnnnnnnnn	nnacaaact	gggtagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccgccagt	tgatggatat	ctgcagaatt	cgccctttcg	agcggccgccc	cgggcaggta	120
ccatgctgac	ttcttggtat	cttttaaggc	ctaattttcc	cttccttgag	attactgtag	180
tgtgttccag	ctaatttcta	tttggaacg	agttggaaca	gctgaaaact	aggattatt	240
gaaggcaaag	cagcctcagc	tcagtttttt	atcagctcat	ttgggaagtt	tttttttttt	300
ttttttttta	attaattaga	aagtaggctg	ggcacgggtg	ctcatgccta	taatcccagc	360
acttggggag	gccgaggatc	tcctctctgg	tggatcactt	gagggcagga	gttaagagac	420
catcctggcc	aa'catgatga	aaccctgtct	ctactaaaaa	tacaaaaaagt	agctgggcgt	480
ggtggcatac	tcttacaatc	ccagctactt	gggaggctga	ggcaggagaa	tcacttgaa	540
ctaggaagca	gaggttgtag	tgggccaaga	tcacaccact	atactctagc	ctgggcgaca	600
gaagtgggga	aaaaagtagg	acccctgtcc	tatattcang	gttttctcac	atatatgaac	660
ccatctaaat	tctacgttgg	taaaaggaac	ctaagggttaa	ttagnctata	cttattttaag	720
aaccattntg	gggnggagat	gg				742

<210> 297
 <211> 728
 <212> DNA
 <213> Homo Sapien

<220>

<221> misc_feature
<222> (1)... (728)
<223> n = A,T,C or G

<400> 297

tnnnntttga	anncnacnct	ctagngcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	ccctttcgag	cgcccgcccg	ggcaggtacc	atgctgactt	cttggatatct	120
tttaaggcct	aattttccct	tccttgagat	tactgtagtg	tggtccagct	aatttctatt	180
tggaacagag	ttggaacagc	tgaaaactag	gtattattga	aggcaaagca	gcctcacgtc	240
agttttttat	cagctcattt	gggaagtttt	tttttttttt	tttttttaat	taattagaaa	300
gtaggctggg	cacggtggct	catgcctata	atcccagcac	ttggggaggc	cgaggatctc	360
ctctctgggtg	gatcacttga	gggcaggagt	taagagacca	tcctggccaa	catgatgaaa	420
ccctgtctct	actaaaaata	caaaaagtag	ctgggcgtgg	tggcatactc	ttacaatccc	480
agctacttgg	gaggctgagg	caggagaatc	acttgaacct	aggaagcaga	ggttgcatgt	540
ggccaagatc	acaccactat	actctagcct	gggcgacaga	agtggggaaa	aaagtaggac	600
ccctgtccta	tattcangtt	tttctcacat	atatgaacct	atctaaattc	tacgttggtg	660
aaggtanctt	aagttaatta	gnctatactt	atttaaganc	aatatggggt	gaaaatggat	720
tttttttn						728

<210> 298
<211> 745
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (745)
<223> n = A,T,C or G

<400> 298

gnnnnnnttna	nnnnnatacga	ctcactatat	agggcggaatt	gggccctcta	gatgcatgct	60
cgagcggccg	ccagtgtgat	ggatatctgc	agaattcgcc	cttagcgtgg	tcgcggccga	120
ggtacccacg	ttttgctcca	cactccttga	cgcaggggc	tcggacacaa	acccctgtca	180
ccaggagagt	cagtcagcac	tacttgggag	ggctaaaggg	aaatttggaa	ataaaaattcc	240
aaagtttgga	gtaaaaaaat	tcaagtgttg	attttatatt	ctttcccttt	ctgacacagc	300
ctaaagcgta	gggggaacat	gtgtttatct	gtgggagata	aacaagatgg	agtcctcaaag	360
actttaacaa	aatatttttt	taaaaatcca	ctagaataga	aaatacatta	tttagatata	420
ctttatgctg	agagttagta	tatatgcttg	tcctatttaa	acttgtgaga	aaaagtggta	480
tcccttgata	catttagaaa	tatgggggct	atcttgtttc	attgtggggg	tggggcagaa	540
ggagaataaa	tgcaggatga	ccctgttgaa	ggaatcttag	catggccaac	aggggacgtt	600
tccagtcgat	taccaggaaa	tgcaagcctt	ggggtttcta	ctggtggtgg	ggctgtcatg	660
aacttttaaaa	tccaaagcct	agacaaggaa	aagtgttaga	ccaattgaaa	agcaatccac	720
cctttttttt	tttttttttt	ggctt				745

<210> 299
<211> 733
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)... (733)
<223> n = A,T,C or G

<400> 299

gnnnnnnnnn	nnnnnnncct	ctagatgctg	ctcgaacggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttagcgt	ggtcgcgcc	gaggtaccca	cgttttgctc	cacactcctt	120
gaccgcaggg	gctcggacac	aaacccctgt	caccaggaga	gtcagtcagc	actacttggg	180
agggctaaag	ggaaatttgg	aaataaaatt	ccaaagtgtg	gagtaaaaaa	attcaagtgt	240
tgattttata	ttctttccct	ttctgacaca	gcctaaagcg	tagggggaac	atgtgtttat	300
ctgtggggaga	taaacaagat	ggagtcccaa	agactttaac	aaaatatatt	tttaaaaatc	360
cactagaata	gaaaatacat	tatttagata	tactttatgc	tgagagttag	tatatatgct	420

tgctctat	aaactt	gtga	gaaaa	agtgg	tatccct	tga	tacatt	taga	aatat	ggggg	480
ctatctt	gtt	tcatt	gtggg	gggtggg	gcag	aaggaga	aata	gccagga	tgacc	ctgtt	540
gaagga	atct	tancat	ggcc	aacaggg	gac	gtttcc	agtc	gattacc	agg	aatgca	600
cttggg	gttt	ctact	gggtg	tgggg	ctgtc	atgaac	nttt	aaaatc	caaa	gcctag	660
aggaaa	agtg	ttagan	ccan	tggaaa	agcc	attccag	ccc	tttttt	tttn	nnnttt	720
gctttt	cacc	aca									733

<210> 300

<211> 741

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(741)

<223> n = A,T,C or G

<400> 300

gnnnntg	ann	gtata	cgaac	tcact	atag	gcgaat	tggg	ccctc	tagat	gcatg	ctcga	60
gcggccg	cca	gtgtg	atgga	tatct	gcaga	attcg	ccctt	tcgag	cggcc	gccc	gggcag	120
gtacgtag	tc	tagg	ccatat	gtgtt	ggaga	ttgag	actag	taggg	ctagg	cccac	cgctg	180
cttcgcag	gc	ggcaa	agact	agtat	ggcaa	taggc	acaat	attgg	ctaag	agggag	tggg	240
tggttgag	ggt	tatga	gagta	gctata	aatga	acagc	gatag	tattat	tcct	tctagg	caca	300
gtagggag	ga	tatga	ggtgt	gagcg	atata	ctagt	tattcc	tagaag	tgag	atgg	taaatg	360
ctagtata	aat	atttat	gtaa	atgag	ggggc	ccgcg	tactc	aagt	gggtc	ctgc	ctctca	420
gtggtgg	cct	tggtc	ttcaa	gtttc	agcaa	ttctg	ggaag	ccaag	gacac	ctcc	atctcc	480
tcctcc	ctga	tctgc	aaactc	atcta	agagc	agctt	ttctca	ctgga	atgtc	ttgt	gtttaa	540
ggaaca	agaa	tcct	gtttc	cggtt	tgggt	gcca	agtg	accta	ctgga	tcca	accag	600
gattgg	agat	acttt	gcaga	acaca	acatc	atctg	gcaca	tgacc	agcca	tggt	gtttca	660
ctttc	acaat	ttcag	cttnc	ttcag	tatt	gcagc	ataat	cgngg	tcaac	acctt	caaga	720
ccaagg	ctga	tgtgg	gccgc	t								741

<210> 301

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 301

gnnnnnt	ncn	antgg	gccct	ctngn	gcatt	gctcg	agcgg	cacgc	cagtg	tgatg	gatag	60
ctgcaga	aatt	cgcc	ctttc	agcgg	ccgcc	cgggc	caggta	cgtag	ctag	gccat	atgtg	120
ttggag	attg	agact	tagtag	ggcta	ggccc	accg	ctgctt	cgcag	gcggc	aaag	actagt	180
atggca	atag	gcaca	atatt	ggcta	agagg	gagt	gggtgt	tgagg	ggttat	gagag	tagct	240
ataat	gaaca	gcgata	gtat	tatt	ccttct	aggca	cagta	gggag	gatag	gaggt	gtgag	300
cgata	tacta	gtatt	cctag	aagt	gagatg	gtaaa	tgcta	gtata	atatt	tatgt	aaatg	360
agggg	ccccg	cgtact	caag	tgggt	ctctg	cctct	cagtg	gtggc	cttgg	tctt	caagtt	420
tcagca	attc	tggga	agcca	aggac	acctc	catct	cctcc	tcct	gatct	gcaac	tcac	480
taagag	cagc	tttct	cactg	gaat	gtcttg	tgttt	aaagga	acaag	aatcc	ctgtt	tcogg	540
tttgg	gtgc	caagt	gcacc	tact	ggatcc	aacc	caggat	tgga	gatact	ttgc	agaaca	600
caacat	catc	tggca	catga	ccag	ccatgg	tgttt	cactt	tcaca	atttc	agctt	ncctc	660
actgat	tgc	cata	atcgtg	gtca	acac	ct		tcaag	accan	ggct	gatgt	720
ngga										ggcc	gntaca	724

<210> 302

<211> 745

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(745)

<223> n = A,T,C or G

<400> 302

gnnnntgaaa	gtntanacga	ctcactatag	ggcgaattgg	gccctctaga	tgcattgctcg	60
agcgggccgcc	agtgtgatgg	atatctgcag	aattcgccct	ttcgagcggc	cgcccgggca	120
ggtactattc	cggatataca	agatcactgg	gagatgttga	tgatggagac	acagtgcacag	180
atttcatggc	ccaagagcga	gaaagaggca	ttactattca	atcagctgct	gttacatttg	240
attggaaagg	ttatagagtc	aatctaattg	atacaccagg	tcatgtggac	tttaccttgg	300
aggttgagcg	gtgcctaaga	gtgttgatg	gtgcagtggc	tgtatttgat	gcctctgctg	360
gtgtagaggc	ccagactctc	acagtatgga	ggcaagctga	taaacacaat	atacctcgaa	420
tctgtttttt	aaacaagatg	gacaaaactg	gagcaagctt	taagtatgca	gttgaaaagca	480
tcagagagaa	gttaaaggca	aagcctttgc	ttttacagtt	accaattggg	gaagccaaaa	540
ctttcaaaag	agtgggtgat	gtagttaatg	aagaaaaact	tctttggaat	tgcaattcaa	600
atgatggaaa	agactttgag	agaaagcccc	tcttggaat	gaatgatcct	gaattgctga	660
aggaaacaac	tgaagcaagg	aatgccttaa	ttgaacaagt	tgcagaattt	ggatgatgaa	720
ttgctgactt	gggtttanaa	naaat				745

<210> 303

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 303

gnnnntcgan	tgggcccttc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	ccctttcgag	cggccgcccc	ggcaggtact	attccggata	tacaagatca	120
ctgggagatg	ttgatgatgg	agacacagtg	acagatttca	tggcccaaga	gcgagaaaaga	180
ggcattacta	ttcaatcagc	tgctgttaca	tttgattgga	aagggttatag	agtcaatcta	240
attgatacac	caggtcatgt	ggactttacc	ttggagggtg	agcgggtgcct	aagagtgttg	300
gatgggtgcag	tggctgtatt	tgatgcctct	gctgggtgtag	aggcccagac	tctcacagta	360
tggaggcaag	ctgataaaca	caatatacct	cgaatctggt	ttttaaaca	gatggacaaa	420
actggagcaa	gctttaagta	tgcagttgaa	agcatcagag	agaagttaaa	ggcaaagcct	480
ttgctttttac	agttaccaat	tgggtgaagcc	aaaactttca	aaggagtggg	ggatgtagta	540
atgaaagaaa	aacttctttg	gaattgcaat	tcaaatgatg	gaaaagactt	tgagagaaaag	600
cccctcttgg	aaatgaatga	tcctgaattg	ctgaaggaaa	caactgaagc	aaggaatgcc	660
ttaattgaca	agttgcagat	ttggatgatg	aatttgctga	cttgggttta	gaagaattan	720
tgag						724

<210> 304

<211> 741

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(741)

<223> n = A,T,C or G

<400> 304

gnnnnnngaa	agtntacgac	tcactatagg	gcgaattggg	ccctctagat	gcattgctcga	60
gcggcccgcca	gtgtgatgga	tatctgcaga	attcgccctt	agcgtgggtcg	cggccgaggt	120
actttataaa	tggaaatttc	ttctacttgt	atccatttcc	cggggcttat	ggaccatttc	180
atactctcca	tatttagaat	caaaggttcc	tttctgaaga	gaccttaatt	ttaaggtaaa	240
acgtgggtcca	agttcctgaa	ttcccacttt	cttttctactc	ctgaatatgt	atctgtgaaa	300
tctgaagaat	atgtaatccc	gttgattgtg	gaatgtggca	acctgccttc	cgataaattg	360

aggattatga	ggaaagagag	atgcaaacat	acgtccaatt	gaatgacca	gccgtgttgt	420
aaaattattc	agaattattt	caggtatgtg	ttctgtgggg	tccttgccctc	ttctctta	480
ttctttacga	agacgaacac	tgctcatttt	aaaatgagca	gttggggccat	ttggcaagt	540
actcaaaata	agtcattttg	gggtttttacg	atcttcatta	ataacaatca	ggctgtgtgaa	600
atctcttgcg	atgcactgtg	gaataatttt	tttcagaacc	agcctcttct	gtaataaaca	660
tgtgagtttg	gtataactgt	gganagctgt	cacagagtcg	taccagtata	ccaaccatac	720
caactntgtt	gtagagcaaa	a				741

<210> 305

<211> 719

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (719)

<223> n = A, T, C or G

<400> 305

gnnnttncaa	ntggggccctc	tngatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttagcgt	ggtcgcgccc	gaggtacttt	ataaatggaa	ttttcttcta	120
cttgatcca	tttcccgggg	cttatggacc	cattcatact	ctccatattt	agaatcaaag	180
gttcctttct	gaagagacct	taattttaag	gtaaaacgtg	gtccaagttc	ctgaattccc	240
actttctttt	cactcctgaa	tatgtatctg	tgaaatctga	agaatatgta	atcccgttga	300
ttgtggaatg	tggcaacctg	ccttcggata	aattgaggat	tatgaggaaa	gagagatgca	360
aacatacgtc	caattgaatg	acccagccgt	gttgtaaaat	tattcagaat	tatttcaggt	420
atgtgttctg	tggggtcctt	gcctcttctc	ttaatttctt	tacgaagacg	aacactgctc	480
attttaaaat	gagcagttgg	gccatttggc	aagtgactca	aaataagtc	atttgggggt	540
ttacgatctt	cattaataac	aatcaggtct	gtgaaatctc	ttgcgatgca	ctgtgggata	600
attttttcag	agccagtcct	cttctgtaat	aaacatgtga	agtttggtat	actgtggana	660
gctgtcacag	agtcgacagt	ataccaacca	taccaactct	gttgnagaac	anaacccat	719

<210> 306

<211> 746

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (746)

<223> n = A, T, C or G

<400> 306

gnnnnntgaa	agtatacgac	tcactatagg	gcgaattggg	ccctctagat	gcatgctcga	60
gcggccgcca	gtgtgatgga	tatctgcaga	attcgccctt	tcgagcggcc	gcccgggcag	120
gtactccagc	ccaggcgaca	gagtgagact	cagtctcaaa	aaaaaaaaaa	atttgggcaa	180
gttatagtc	atctcatagt	gttggttagga	ctaatttctt	catgtgctta	gaaaaatgcc	240
tggcagatag	gaaatggtca	atattattat	tattgataag	atgaccattt	tggagtttag	300
aaaaccattt	tcaatgccta	tgaaataaca	actccataag	ccattccctt	aaatccagta	360
gactgaattc	tcacaagtc	tcactactca	tcatttctac	atcctgctga	tttacaataa	420
cttcttcata	ccatggttta	tgtctttgct	taatatcaag	gaggatggat	tccatggtag	480
agccaaactc	aatgatacta	cgagtctcat	tttggttaagt	ataagcaaag	ccagcagcat	540
gcatggccac	caatgaacct	tttgaatcaa	acacagggga	gcccgggaagc	cccaaagaaa	600
aattcagtg	cataggtaat	cacatcangg	ttgtgaacta	ttttctggaa	acttctttga	660
gtatacatat	ggacatactc	tggactttct	gcttttttag	actgaacacg	ttcctgacat	720
ttctttgctc	gctgaccctg	anggat				746

<210> 307

<211> 725

<212> DNA

<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (725)
<223> n = A,T,C or G

<400> 307
gnnnnntnncn antggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg ccctttcgag cgcccgcccg ggcaggtagt ccagcccagg cgacagagtg 120
agactcagtc tcaaaaaaaaa aaaaaatttg ggcaagttat agtccatctc atagtgttgt 180
taggactaat ttcttcatgt gcttagaaaa atgcctggca gataggaaat ggtcaatatt 240
attattattg ataagatgac ctttttgag tttagaaaac ctttttcaat gcctatgaaa 300
taacaactcc ataagccatt cccttaaatc cagtagactg aattctcaca agtcctcatc 360
actcatcatt tctacatcct gctgatttac aaatacttct tcataccatg gtttatgtct 420
ttgcttaata tcaaggagga tggattccat ggtagagcca aactcaatga tactacgagt 480
ctcatttttg taagtataag caaagccagc agcatgcatg gccaccaatg aaccttttga 540
atcaaacaca ggggagccgg aagccccaaa gaaaaattca gtgtcatagg taatcacatc 600
anggttgtga actattttct ggaaacttct ttgagtatac atatggacat actctggact 660
ttctgctttt ttagactgac acgttcctga catttcttg ctcgctgacc ctgagggatc 720
acang 725

<210> 308
<211> 744
<212> DNA
<213> Homo Sapien
<220>
<221> misc_feature
<222> (1) ... (744)
<223> n = A,T,C or G

<400> 308
gnnnntgaaa gtaatacgac tcactatagg gcgaattggg ccctctagat gcatgctcga 60
gcggccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gtacgcgggg tgacaagtag caacatggct tgggtccctt gtgcagcatc agcttatgct 180
gccacaagtc agtttgcacc ctaggtaccc aggagctagt atccttagat ctttctatcg 240
ctaacttaat tctcttcgtt atttatctga ccctctaact ccatgtetaa cttgcattaa 300
aaaaaaaaaa attctttaca gtcaacccaa gcttaacatg gactcagggt cccagcagc 360
cttaatttgt tttgttaaca tctgttcctt ctttttcagc tctcctagag tatttctgag 420
tgttgtgttc atctaattctt agtattcttt taattacaaa ttgacctcac agcttgaggt 480
ttcctgtgtc ttattctgtg gactacctgt gctccttgcc ttccctccc ctcgcataat 540
aactatatta agaaattttt tttggccttg agttggctgg aaaaaaata taaaatttaa 600
aaaaaaaaan nnnnnnnnaa aaaaaaaag tacctnggcc gggaccacgc taanggcgaa 660
ttccagcaca ctggcgcccg ttactaagtg gatccgaact cgggtaccaac ttggcgtaat 720
catggcatag ctggttcctg ngga 744

<210> 309
<211> 746
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (746)
<223> n = A,T,C or G

<400> 309
gnnnntncca ntggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg ccctttcgag cgcccgcccg ggcaggtagc cggggtgaca agtagcaaca 120
tggttggtt cccctgtgca gcatcagctt atgctgccac aagtcagttt gcaccctagg 180
taccaggag ctagtatcct tagatcttct tatcgtaac ttaattctct tcgttattta 240
tctgacctc taactccatg tctaacttgc attaaaaaaa aaaaaattct ttacagtcaa 300
cccaagctta acatggactc aggttccccca gcagccttaa tttgttttgt taacatctgt 360

tccttctttt	tcagctctcc	tagagtattt	ctgagtgttg	tgttcaccta	atcttagtat	420
tcttttaatt	acaaattgac	ctcacagctt	gagggttctt	gtgtcttatt	ctgtggacta	480
cctgtgctcc	tttgcttccc	ctccccctgc	ataataacta	tattaagaaa	tttttttttg	540
ccttgagttg	gctggaaaaa	aaatataaaa	tttaaaaaaa	aaannnnnnn	nnnnaaaaaa	600
aaaagtcctt	ggccgggacc	acnctaangg	cgaaattcca	gcacaactgg	gcggncctgt	660
aactagggga	atcccnaact	tnggnaccen	aaacttgggc	gtaaaacaat	gggncaataa	720
gctggnnncc	ctggnggtga	aaaatt				746

<210> 310

<211> 751

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (751)

<223> n = A,T,C or G

<400> 310

gnnnntgana	gtaatacgac	tcactatagg	gcgaattggg	ccctctagat	gcattgctcga	60
gcggccgcca	gtgtgatgga	tatctgcaga	attcgccctt	togagcggcc	gcccggggcag	120
gtacttaatg	cctttctcct	cctggacatc	agagagaaca	cctgggtatt	ctggcagaag	180
tttatatttc	tccaaatcaa	ttcttgga	aaacgtgtca	ctttcaaagt	cttgcatgat	240
ccttgctaca	aatagtttaa	gatggcctgg	gtgattcatg	gcttccttat	aaacagaact	300
gccaccaact	atccagacca	tgtctacttt	atttgctaat	tctggttggt	cagtaagttt	360
taaggcatca	tctagacttc	tggaaagaaa	atgagctcct	tgtggaggtt	ccttgagttc	420
tctgctgaga	actaaattaa	ttctaccctt	taaaggctga	ttcttctcag	gaatggagaa	480
ccaggtcttc	ttaccataaa	tcaccagatt	ctgnttacct	tctactgaag	aagtgtgtgt	540
cattctctgg	aaatatctga	attcattcct	gagcggtggc	caaggcangt	ncccggtctt	600
gccgatgccc	atgttctggg	acacagcgac	gatgcagttt	agcgaaccaa	ceatgacagc	660
aaccgggga	accttcgagc	ccggttcgnt	acaagccccc	gcgtaccttn	gggccngaa	720
cacgcttaag	ggcgaattnc	aacacactgg	c			751

<210> 311

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (724)

<223> n = A,T,C or G

<400> 311

gnnttncnan	tgggccctct	agatgcatgc	tcgagcggcc	gccagtgtga	tggatatctg	60
cagaattcgc	cctttcgagc	ggccgcccgg	gcaggtactt	aatgcctttc	tcctcctgga	120
catcagagag	aacacctggg	tattctggca	gaagtttata	tttctccaaa	tcaatttctg	180
gaaaaaacgt	gtcactttca	aagtcttgca	tgatccttgt	cacaaatagt	ttaagatggc	240
ctgggtgatt	catggcttcc	ttataaacag	aactgccacc	aactatccag	accatgtcta	300
ctttatttgc	taattctggg	tgttcagtaa	gttttaaggc	atcatctaga	cttctggaaa	360
gaaaatgagc	tccttgtgga	ggttccttga	gttctctgct	gagaactaaa	ttaattctac	420
cctttaaagg	tcgattcttc	tcaggaatgg	agaaccaggc	cttcttacc	ataatcacca	480
gattctgttt	accttctact	gaagaggttg	tggtcattct	ctggaaatat	ctgaattcat	540
tcctgagcgg	tggccaaggc	angtccccgt	tcttgccgat	gcccattgtc	tgggacacag	600
cgacgatgca	gtttancgaa	ccacccatga	cagcagcggg	aggaccttcg	agcccgtctg	660
ttacaagccc	ccgcgtacct	tnggccgcga	acaccttang	gcgaaattca	acacactggc	720
ggcc						724

<210> 312

<211> 738

<212> DNA

<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(738)
 <223> n = A,T,C or G

<400> 312
 nnnntttgaa gnctacnact cactataggg cgaattgggc cctctagatg catgctcgag 60
 cggccgcccag tgtgatggat atctgcagaa ttcgcccttt gagcggccgc ccgggcaggt 120
 acgcggggggg cagacatggc gacattgaca gtggtccagc cgctcaccct ggacagagat 180
 gttgcaagag caattgaatt actggaaaaa ctacaggaat ctggagaagt acgttcacta 240
 attatctaca aggacaaaat cagttgtatt tacaaaactc tacttcagtg tttgttttag 300
 tttttttttt actgaaactt gtttttgtga atactctgtg cttagaatta aatatcactt 360
 tcttatgaac aacataactt cttcagattg tgtatatgaa aacattagca agtcttggtt 420
 tttctatgaa gcaaacacaa ttggtgacaa aggttggtcaa tcatttcttc aaaattataa 480
 tgcagttcta atggtcagca ttttttgata ttaaatttaa agatcacctc tctgcatttg 540
 tttttaaatt atgctaatac accacacatt atgttggtat gttttggtct gtccctcgcc 600
 gcgaccagc ttanggcgaa ttccagcaca ctggcgggcc gttactagtg gateccagct 660
 cgggtccaagc tggcgtaatc atggtcatag ctggttcctg tgtgaaatgg tatccgttac 720
 aattcccaca catacgan 738

<210> 313
 <211> 720
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(720)
 <223> n = A,T,C or G

<400> 313
 gnnttncaan tgggccctct agatgcatgc tcgagcggcc gccagtgtga tggatatctg 60
 cagaattcgc cttttgagcg gccgcccggg caggtacgag gggggcagac atggcgacat 120
 tgacagtggg ccagccgctc accctggaca gagatgttgc aagagcaatt gaattactgg 180
 aaaaactaca ggaatctgga gaagtacgtt cactaattat ctacaaggac aaaatcagtt 240
 gtattttacaa aactctactt cagtgtttgt ttttagttttt tttttactga aacttgttt 300
 tgtgaatact ctgtgcttag aattaaatat cactttctta tgaacaacat aacttcttca 360
 gattgtgtat atgaaaacat tagcaagtct tgttttttct atgaagcaaa cacaattggg 420
 gacaaagggt gtcaatcatt tcttcaaaat tataatgcag ttctaattgg cagcatattt 480
 tgatattaaa tttaaagatc acctctctgc atttggtttt aaattatgct aataccacc 540
 acattatgtt ggtatgtttt gntctgtacc tcggccgcga ccacgctaan ggcgaaattca 600
 ncacactggc ngncgttact agtggatccg agctcggacc aaacttggcg taatcatngn 660
 catagctggg tcctgtgtga aaatgggtat cgttacaatt tcacacacat acgagccgga 720

<210> 314
 <211> 740
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(740)
 <223> n = A,T,C or G

<400> 314
 gnnnttnaa gnctacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
 cggccgcccag tgtgatggat atctgcagaa ttcgccctta gcgtggctgc ggccgaggt 120
 cttttttttt tttttttttt ttagtgcttt ctactttatt aaacatcaaa gcccaatag 180
 atgttccttg tggaggagga cttaaggaca ctaggggagg agaaagggac acctgggaag 240
 agaatcacac cacagagacc aatcttcaca aaaagggtcc aatattgatt tctaggagg 300
 agcagggcat ggtcagctca aatttggtga taacgtcagg atgaaggacc ccaagcttcc 360

cgacgctttg	acccctggca	aagatctctg	cacatcgccc	ggggaagaaa	gcaggccctt	420
ctgatgcttt	gatcacatat	cccccttgt	cttcaccagg	aggcacatcg	agcaactgca	480
taattctgtc	cagcagccca	tgaatgatct	caaaccagg	attcttgntg	taataaacag	540
cactgagatg	tctgtagttt	tttgaccta	catctgnatt	agaatctttt	attacaatgt	600
cagagatttc	aaacagtttc	agtgggaagg	gcattcttacg	attgctgcta	tggcttcagg	660
angccaggaa	gaagggtagt	gcgtgccacc	tgaaattcac	tggttagga	tacttatgtg	720
gactggcttt	gttgcaaaan					740

<210> 315

<211> 722

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (722)

<223> n = A, T, C or G

<400> 315

gnnnnnnnnn	nnnnnnntnn	atgctgctcg	agcggccgcc	agtgtgatgg	atatctgcag	60
aattcgccct	tagcgtggtc	gcgggcggag	tacttttttt	tttttttttt	ttttagtgt	120
ttctacttta	ttaaacatca	aagcccaaat	agatgttccc	tgtggaggag	gacttaagga	180
cactagggga	ggagaaagg	acacctggga	agagaatcac	accacagaga	ccaatcttca	240
caaaaagggt	ccaatattga	tttctaggga	ggagcagggc	atggtcagct	caaatttggt	300
gataacgtca	ggatgaagga	ccccaaagct	cccgacgctt	tgacctctgg	caaagatctc	360
tgcacatcgc	ccggggaaga	aagcaggccc	ttctgatgct	ttgatcacat	atccccctt	420
gtcttcacca	ggaggcacat	cgagcaactg	cataattctg	tccagcagcc	catgaatgat	480
ctcaaaccce	ggattcttgt	tgtaataaac	agcactgaga	tgtctgtagt	tttttgcacc	540
tacatctgna	ttagaatctt	ttattacaat	gtcagagatt	tcaaacagtt	tcagtggaaa	600
ggggcatctt	acgatttgct	gctatggnet	tcangaggnc	angaaaaagg	gtantgcntg	660
ccctgaaat	tcantctggt	taggattacc	tatgtggact	ggctttgntg	caaaaaaatn	720
cn						722

<210> 316

<211> 753

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (753)

<223> n = A, T, C or G

<400> 316

gnnnnnttna	nagtnnnnac	gactcactat	aggggcgaac	netctncatg	catgctcnan	60
cggncnncan	ngtcatggat	atntgctgan	ttcgccctta	centngcntn	ggccgaggcg	120
cagntcccac	gtntngctcc	ncactncnnn	accgcagggg	cncngacncn	gaccngngnn	180
ncnnngngag	tnccncagca	ctacttgagg	nggctanagg	gaagnttgga	aataaaattc	240
caaannnttg	agtaaaagca	atncangcgn	ngattatata	tgntnnccct	ttctgacacn	300
ncctagagcg	tagggggaac	atngntntat	ctgtgggana	tnaacaagat	ggagtcccaa	360
agactttaac	aaagntatatt	cttaannatc	cnctacaatn	nanaatncat	tattcatatn	420
tactntatgc	tgnnagttag	tatntatgct	ngtcctattt	aaacttgnga	gaanaagtgg	480
tntcccttga	tacattnaga	aatatggggg	ctatcttgnt	ncattgtggg	ggtggggcan	540
aagganaatn	aatgcangat	gaccctgttg	aangaatctt	aacatggcca	acanggggac	600
ngtttacagt	cgattaccag	gaaangcaag	ccttgggggt	tctactgcng	gtgggggctg	660
tcatgaactt	naaaatccan	agnctatacc	aggaaaaagt	ggtangaccc	aattgaaang	720
ctntccaccc	tttcttttnn	tttgttccng	cnc			753

<210> 317

<211> 893

<212> DNA

<213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1) ... (893)
 <223> n = A,T,C or G
 <400> 317
 gtgnnnntn cnaaatggnc cntttnaatg cctncctcga gcgggcccgc agtgtgatgg 60
 atntntaatt cgncccttagc gtggtcgcgg ccgnggtacn aahgaaataa aantnacagt 120
 ntcaaagaac caaantaagt cggacacaaa cccctgtcac cannagagtc ccatanacat 180
 aannnggntg ntgtcaagna ggattnaaat taactttaac aacntntat ataagtctac 240
 attccccaat taataaagga nagttcacat atacanctaa ntgntaattg tggaaanaag 300
 ggtgaaantn tgcatannta atannaaana atgctgaang cttttncata nnattnnctt 360
 aaaaatncac ttncnatgca gcantangtn tacatgctta atntatcntg cnagtgattn 420
 ntatgcttgt cctacatgac ntaccttgaa caactggnc tncacagatt catactgaaa 480
 tatggggncg ntaantatnt tgggancggn annacntgaa tccctcaaagg atannnnntn 540
 tccagntgga tgaaaccnat nattnaaang gatattntna accatnggan cgaatgnncg 600
 nngntctttt tcaatntntc gngaagntnc cnnttnnata ncccgngggc cncattgngg 660
 ggnntatntn ncaatcaann ccnngagntg tntntcntt cntcnaccgc ataacctttt 720
 gccataggga acctnttttn aacctcttg gnttatnggg aaanaannnn nnttttaaat 780
 tcnccaaaat ngggaaaaan aaccttntc actctaaaaa nttanccnta gacctanttn 840
 tngngncata tttgntaaac nctatggnc ctcnagnggg gnnctgggnc nnc 893

<210> 318

<211> 744

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (744)

<223> n = A,T,C or G

<400> 318

gnnnngattg tatacgactc actatagggc gaattgggcc ctctagatgc atgctcgagc 60
 ggccgccagt gtgatggata tctgcagaat tcgcccttcc gagcgccgc ccgggcaggt 120
 acctcattag taattgtttt gttgtttcat tttttctaa tgtctcccct ctaccagctc 180
 acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca 240
 ttctctctga agtctaggtt acccattttg gggacccatt ataggcaata aacacagttc 300
 ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcccttt tcttagcctt 360
 ttctgcaaa aggtcactc agtcccttgc ttgtcagtg gactgggctc cccagggcct 420
 aggtgcctt cttttccatg tcccacccat gagccctcca ctggacagct cagtaagcct 480
 ggcccttcat tctgcgctgt gttcttctc tgtgaaaatc caatacctct tacctcctct 540
 gcatgcaaa attctcaagg attgtcagac ttcaaacgta acagcagaac caccagaagg 600
 tcctataaat gcagtagtga cttctcaag ctgtcanggc tttaaatagg atttgggatt 660
 taatgctatg tattttttaa ggaaagaaat aagagttgct agtttttaaa atgcatgtct 720
 tttaaccaatt canaatctgg cccc 744

<210> 319

<211> 720

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (720)

<223> n = A,T,C or G

<400> 319

nggttttaaac cttcttanng ctgctcgagc ggccgccagt gtgatggata tctgcagaat 60
 tcgcccttcc gagcgccgc ccgggcaggt acctcattag taattgtttt gttgtttcat 120
 tttttctaa tgtctcccct ctaccagctc acctgagata acagaatgaa aatggaagga 180

cagccagatt	tctcctttgc	tctctgctca	ttctctctga	agtctaggtt	acccattttg	240
gggacccatt	ataggcaata	aacacagttc	ccaaagcatt	tggacagttt	cttgttgtgt	300
tttagaatgg	ttttcctttt	tcttagcctt	ttcctgcaaa	aggctcactc	agtcccttgc	360
ttgctcagtg	gactgggctc	cccagggcct	aggctgcctt	cttttccatg	tcccacccat	420
gagccctcca	tggacagct	cagtaagcct	ggcccttcat	tctgcgctgt	gttcttcctc	480
tgtgaaaatc	caatacctct	tacctcctct	gcatgcaaa	attctcaagg	attgtcagac	540
ttcaaacgta	acagcagaac	caccagaagg	tcctataaat	gcagtagtga	ccttctcaag	600
ctgtcanggc	tttaaataagg	atttgggatt	taatgctatg	tatttttaaa	ggaaagaaat	660
agagttgcta	gttttaaaaa	tgcattgtctt	ttaaccaatt	cagaatctgg	ccccnaactt	720

<210> 320

<211> 694

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (694)

<223> n = A,T,C or G

<400> 320

atgctcgagc	ggncggcant	gtgatggatn	tctgcagaat	tcgccctttc	gagcggccgc	60
ccgggcaggt	actattccgg	atatacaaga	tactggggag	atgttgatga	tggagacaca	120
gtgacagatt	tcatggccca	agagcgagaa	agaggcntta	ctattcaatc	agctgctgtt	180
acatttgatt	ggaaagggtta	tagagtcaat	ctaattgata	caccaggtca	tgtggacttt	240
accttggagg	ttgagcgggtg	cctaagagtg	ttggatgggtg	cantggctgt	atttgatgcc	300
tctgctgggtg	tagaggccca	gactntcaca	gtatggaggc	aagctgataa	acacaatata	360
cctcgaatct	gttttttaaa	caagatggac	aaaactggag	caagctttaa	gtatgcagtt	420
gaaagcatca	gagagaagtt	aaaggcaaa	cctttgcttt	tacagttacc	aattgggtgaa	480
gccaaaactt	tcaaaggagt	ggtggatgta	gtaatgaang	aaaaacttct	ttggggaattg	540
caattcaana	tgatggaaaa	gactttgaga	gaaagccctt	cttggaatg	aatgatcctg	600
aattgctgaa	ggaaacaact	gaacaaggaa	tgcttaatt	gaacaaagtt	gcagatttgg	660
atgatgaatt	tgctgacttg	gttttaagaa	gaat			694

<210> 321

<211> 781

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (781)

<223> n = A,T,C or G

<400> 321

gngttnacna	ntggggccctc	tngatgctgc	tcgagcggcc	gncagtgatga	tggatntctg	60
cagaatncgc	cctncggggcg	gccgnccggg	caggatctat	nccggatata	caagatcact	120
gggagatgtt	gatgatggag	acncagngac	agatttcatg	gcccagagc	gagaaagagg	180
cnttactatn	caatcagctg	ctgttacatt	cgattggaaa	ggttatngag	tcaatctaata	240
tgatncacca	ngtnatgttg	actttacctt	ggagggttgag	cggtgcctaa	nagtgttgga	300
tggtgcann	gctgtatttg	atgcctctgc	tggtgtagag	gcccagactc	tcacagtatg	360
gatgcaagct	gataaacaca	atatacctng	aatctgtgtt	ttaaacaaga	tggacaaaaac	420
tggagcaagc	tttaaagtnt	gcagttgaaa	gcatcagaga	gangttnaag	gcanagcctt	480
tgctttttaca	gtttcccaat	tgggtgaaac	ccaaaacttt	tcaaaggagg	ttggttggtat	540
tgtaagtaat	gaaaggaaaa	acttcttttg	gaaantggca	atttcaanat	gattggaaaa	600
ngacttttgg	gagaaaaagcc	ccttcttggg	aaaatngaaa	tgatncctga	aatttgcngt	660
aaanngaaaa	cnaacntgna	atccaangga	atncccttt	aanttggaa	aaaggnttgc	720
naanttttng	attgaatnga	atttgncong	cntttnggtt	ttangaaaga	aattaaagng	780
g						781

<210> 322

<211> 744

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (744)

<223> n = A,T,C or G

<400> 322

gnnntganag	tatcgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccccccagt	gtgatggata	tctgcagaat	tcgcccttcc	gagcggccgc	ccgggcaggt	120
acgcggggac	tgggtttttc	tccttttgta	gccttttccct	ttagtctcct	cttcccgggtg	180
gttggtaaaa	agaggtgaat	tgacagccta	tggtgaagac	actgtgcttt	tctcaagaag	240
gacatccaaa	cagcaagtct	acttctttct	ctttaacgat	gtgctcat	tcaccaagaa	300
gaagagtga	gaaagttaca	acgtcaatga	ttattcctta	agagatcagc	tattggtgga	360
atcttgtgac	aatgaagagc	ttaattcttc	tccagggaag	aacagctcca	caatgctcta	420
ttcaagacag	agctctgccca	gtcacctctt	tactctgaca	gtccttagta	accacgcgaa	480
tgagaaagt	gagatgctac	taggagctga	gacgcagagc	gagcgagccc	gctggataac	540
tgccctggga	cacagcagcg	ggaagccgcc	tgacagaccga	acctnactga	cccaggtgga	600
aatcgtagg	tcatttactg	ctaagcagcc	agatgaactc	ttcctgcagt	ggctgacgtc	660
gtcctcatct	atcaacgtgt	cagcgatggc	tggtatgaag	gggaacgact	tcgagatgga	720
gaaagaagnt	gggttcctat	ggaa				744

<210> 323

<211> 723

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (723)

<223> n = A,T,C or G

<400> 323

gtgtttcaan	cggtcctcta	gatgctgctc	gagcggccgc	cagtgtgatg	gatatctgca	60
gaattcgccc	tttcgagcgg	ccgcccgggc	aggtacgcgg	ggactgggtt	tttctccttt	120
tgtagccttt	tccttttagtc	tcctcttccc	gggtggttgg	aaaaagaggt	gaattgacag	180
cctatgttga	agacactgtg	cttttctcaa	gaaggacatc	caaacagcaa	gtctacttct	240
ttctctttaa	cgatgtgctc	attatcacca	agaagaagag	tgaagaaagt	tacaacgtca	300
atgattattc	cttaagagat	cagctattgg	tggaaatctg	tgacaatgaa	gagcttaatt	360
cttctccagg	gaagaacagc	tccacaatgc	tctattcaag	acagagctct	gccagtcacc	420
tctttactct	gacagtcctt	agtaaccacg	cgaatgagaa	agtggagatg	ctactaggag	480
ctgagacgca	gagcgagcga	gcccgcctgga	taactgccct	gggacacagc	agcgggaagc	540
cgctgcagac	cgaacctcac	tgacctcaggt	ggaaatcggt	aggtcattta	ctgctaagca	600
gccagatgaa	ctcttcctgc	angtggtgga	cgctgcctc	atctatcaac	gtgtcancga	660
tggttggtatg	aaggggaacg	actacnagat	ggagaaagaa	gctgggtttcc	tatggaatgt	720
gcc						723

<210> 324

<211> 746

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1) ... (746)

<223> n = A,T,C or G

<400> 324

gggnntgaag	ncncgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccccccagt	gtgatggata	tctgcagaat	tcgcccttag	cgtaggtcgcg	gccgaggtac	120
cttgagatct	gagcaactgt	gttaatgaag	taatagcaat	ggtccacagt	gaaagatgtg	180

ttgggggtttg	caaaacaagc	attccgtcac	ctctttaata	atgtcacaga	cttttttaaa	240
agagaggcta	tcaagttgta	atataatctg	tcattgttta	tttaggaagg	aaggtaaatt	300
tgtgcttgca	cggggatcat	tttgtattat	ttntgcta	acccagttga	agctaaaaag	360
caactatttg	aatcctgtga	attaatttat	aagaatgtta	aacagctntg	gaaatacatg	420
catcttatga	atcatagcct	tatttagcaa	gatcaatgtt	aaagtgttga	tatatggcaa	480
gtatttaaca	cattcacagt	gntagtttga	tttcaactgt	gaattgtctt	acagtttttt	540
caaacctagt	gtntctatgg	acacctgtct	tgaattgtac	ccctcagtca	ccaccaaagc	600
atttncaccc	ctttcaaccc	ccaatcagac	cantgctttc	agtggatttg	gaggacttnt	660
atcacagctt	catnangtgg	tcttggcaca	ggcagntcga	ctngcttngg	aactgggtgct	720
tttgactcc	cttcaanngn	aatant				746

<210> 325

<211> 742

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(742)

<223> n = A,T,C or G

<400> 325

gtgtttcann	cggccctcta	gatgcatgct	cgagcggccc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggcgg	aggtaccttg	agatctgagc	aactgtgtta	120
atgaagtaat	agcaatggtc	cacagtga	gatgtgttgg	ggtttgcaa	acatgcattc	180
cgtcacctct	ttaataatgt	cacagacttt	tttaanagag	aggctatcaa	gttgtnatat	240
aatctgtcat	gtattattta	agaaggaagg	taaatntgtg	cttgcacggg	gatcattttg	300
nattatttct	gctnatcccc	agctgaagct	nanaancnac	tnnttgnatc	ctgtgantt	360
atncatanna	atgttanaca	gctntggaaa	tccatgcctc	ttatgaatca	tngccttatt	420
tancangate	aatgttaaag	ntgttgatat	nnggcaagtn	tnaacaat	tnacantgct	480
agtntgattt	caactngaa	ttgntcttacc	gtnttttnaa	acctananga	atntatngac	540
acctnctctn	aatngnnncc	ctcaancacc	acnaaanctt	ttncnnccct	tncaaccccc	600
natcngaccn	cngcattcag	tngnaancng	aangactttc	atcacaactg	gncaanatnt	660
nggacttttg	cgccatgcnn	acctctcttg	nctttngaac	nnggttgctt	tttnggactt	720
tnncctgng	ngataaccac	cn				742

<210> 326

<211> 747

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)...(747)

<223> n = A,T,C or G

<400> 326

atgnttttaag	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgccaggt	gtgatggata	tctgcagaat	tgcgcccttc	gagcggccgc	ccgggcaggt	120
actgtatcat	tggcagatgt	gacgtcaccg	acaaccagag	tgaagtggcg	gacaaaactg	180
aggattacct	gtggctgaag	ttgaaccaag	tgtgttttga	cgacgatggc	accagctccc	240
cacaagacag	gctcactctc	tcacagttcc	agaagcagtt	gttggaagac	tatggcgagt	300
cccactttac	ggtgaaccag	caacccttcc	tctacttcca	agtctgttcc	ctgacagcgc	360
agtttgaagc	agcagttgcc	tttcttttcc	gcatggagcg	gctgcgctgc	catgctgtcc	420
atgtagcact	ggtgctgttt	gagctgaagc	tgctttttaa	gtcctctgga	cagagtgtctc	480
aactcctcag	ccacgaacct	ggtgaccctt	cttgcttgcg	gcggtgaac	ttcgtgcggc	540
tctcatgct	gtacctcggc	cgngaccacg	ctaaggcgga	attccagcac	actggcggnc	600
gttactagt	gatccgagct	cggtaccaaa	cttggcgtaa	tcatggncat	agctggttcc	660
tgtgtgaaat	ggtatccgtt	acaatttcac	acaacatacg	agccgggaag	catnaagtgt	720
naaacctggg	gtgcctnatg	agtgacn				747

<210> 327

<211> 724
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(724)
 <223> n = A,T,C or G

<400> 327

gtnatgaaac	cnttctntng	ngcatgctcg	agcgcccgcc	agtgtgatgg	atatctgcag	60
aattcgccct	ttcgagcggc	cgccccgggca	ggtactgtat	cattggcaga	tgtgacgtca	120
ccgacaacca	gagtgaagtg	gcggacaaaa	ctgaggatta	cctgtggctg	aagttgaacc	180
aagtgtgttt	tgacgacgat	ggcaccagct	ccccacaaga	caggtcact	ctctcacagt	240
tccagaagca	gttgttgaa	gactatggcg	agtcccactt	tacggtgaac	cagcaaccct	300
tcctctactt	ccaagtcctg	ttcctgacag	cgcagtttga	agcagcagtt	gcctttcttt	360
tccgcatgga	gcggctgcgc	tgccatgctg	tccatgtagc	actgggtgctg	tttgagctga	420
agctgctttt	aaagtcctct	ggacagagtg	ctcagctcct	cagccacgag	cctgggtgacc	480
ctccttgcct	gcggcggtcg	aacttcgtgc	ggctcctcat	gctgtacctc	ggccgcgacc	540
acgctaaggg	cgaattccag	cacactggcg	gccgttacta	gtggatccga	gctcgggtacc	600
aagcttggcg	taatcatggt	catagctgtt	tcctgtgtga	aattgtatcc	gctcacaatt	660
ncacacaaca	tacgagccgg	aagcataaag	tgtaaaacct	ggggtgccta	atgagtgaac	720
taan						724

<210> 328
 <211> 747
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(747)
 <223> n = A,T,C or G

<400> 328

tgnntgttag	atacgactca	ctatagggcg	aattgggccc	tctagatgca	tgctcgagcg	60
gcccgccagt	gtgatggata	tctgcagaat	tcgcccttag	cgtggtecg	gccgaggtac	120
tttttttttt	ttttttaaag	acagagtctt	gctctgtcac	ccaggctgga	gtgcagtggc	180
acgatctcgg	ctcactgcaa	gctctgcttc	ccgggttcac	gccattctcc	tgctcagcc	240
tcccagtag	ctgggactac	aggtgcccgc	caccatgcc	ggctgatttc	tttttgatt	300
tttagtagag	acggagtctc	accgtgttag	ccaggatggt	ctcgatctcc	tgacctcgtg	360
atccgcccgc	cttggcctcc	aaagtgtctg	gattacaggt	gtgagctacc	gcgcccggcc	420
tattatcttg	tactttctaa	ctgagccctc	tattttcttt	attttaataa	tatttctccc	480
cacttgagaa	tcacttgtaa	gttcttggtg	ggaattcagt	tgggcaatga	taacttttat	540
gggcaaaaac	attctattat	agtgaacaaa	tgaaaataac	agcgtatttt	caatattttc	600
ttattcctta	aattccactc	ttttaacact	atgcttaacc	acttaatgtg	atgaaatatt	660
cctaaaagtt	aaatgactat	taaagcatat	attggtgcat	gnatatatta	aagtaccgga	720
tactctaaat	aaaaatccac	tggtccn				747

<210> 329
 <211> 725
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(725)
 <223> n = A,T,C or G

<400> 329

gcgtttcaan	tgggcccctct	ngngcatgct	cgagcggccg	ccagtgtgat	ggatatctgc	60
agaattcgcc	cttagcgtgg	tcgcggccga	ggtacttttt	tttttttttt	taaagacaga	120

gtcttgcctc	gtcaccagc	ctggagtgca	gtggcagcat	ctcggctcac	tgcaagctct	180
gcctcccggg	ttcacgccat	tctcctgcct	cagcctcccg	agtagctggg	actacaggtg	240
cccgccacca	tgcccggctg	atctcttttt	gtatttttag	tagagacgga	gtttcacccg	300
gttagccagg	atgggtctga	tctcctgacc	tcgtgatccg	cccgccctgg	cctccaaagt	360
gctgggatta	caggtgtgag	ctaccgcgcc	cggcctatta	tcttgtaact	tctaactgag	420
ccctctatct	tctttatctt	aataatattt	ctccccactt	gagaatcact	tgtagttctt	480
tggtaggaat	tcagttgggc	aatgataact	tttatgggca	aaaacattct	attatagtga	540
acaaatgaaa	ataacagcgt	atcttcaata	ttttcttatt	ccttaaattc	cactctttta	600
acactatgct	taaccactta	atgtgatgaa	atattcctaa	aagttaaagt	actattaaag	660
catatattgg	tgcatgtata	tattaagtag	cccgatctct	naataaaaat	ccactgggtac	720
agata						725

<210> 330

<211> 741

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (741)

<223> n = A,T,C or G

<400> 330

gnnntganag	atacgactca	ctataggggc	aattggggcc	tctagatgca	tgctcgagcg	60
gcccggcag	gtgatggata	tctgcagaat	tcgcccttag	cgtggctcgc	gccgaggtac	120
tttttttttt	tttttttttt	tttttttttt	ggaagtttaa	tttactcaca	gttcaacatg	180
gctggggagg	cctcaggaaa	tttacaatta	taacagaaag	caaaggggaa	gccagatacc	240
ttcttcacaa	ggtggcagga	aggagaagag	ccgagagaag	gcggaagaat	cccttataaa	300
accatcagat	ctcgtgagaa	ctcacttgct	atcaggagaa	cagcatgggg	gaaccgcccc	360
caggattcaa	tgacctncac	ctggtctctc	ccttgacacg	tgaggattat	ggggattaca	420
attccagatg	agatttggtg	ggggacacaa	agccaaacca	tatcaactgt	gactaccttg	480
ggtaagggcc	atccaggcag	aggcaggggg	aacattcttg	gcaaaggcct	tggggcaggg	540
gcctggtatg	ttcagatagc	ancaagtagg	ccagantggc	cggaggggag	taagtgtggg	600
gaggccagtg	ganagatgag	ggtaggggag	ggatggatca	gatcatgcag	ggccccgggg	660
gccacaggaa	ngacctnagc	atttactgca	agtaangtgg	gaaccatcga	atgtctaagc	720
naggaggaat	ccctgtgact	c				741

<210> 331

<211> 727

<212> DNA

<213> Homo Sapien

<220>

<221> misc_feature

<222> (1)... (727)

<223> n = A,T,C or G

<400> 331

gtnnnnncgan	ngggccctct	agatgcatgc	tcgagcggcc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggtactttt	tttttttttt	tttttttttt	120
tttttttgaa	gtttaattta	ctcacagttc	aacatggctg	gggaggcctc	aggaaattta	180
caattataac	agaaggcaaa	ggggaagcca	gataccttct	tcacaagggtg	gcaggaagga	240
gaagagccga	gagaaggcgg	agaatccct	tataaaacca	tcagatctcg	tgagaactca	300
cttgctatca	ggagaacagc	atgggggaac	cgccccagg	attcaatgac	ctccacctgg	360
tctctccctt	gacacgtgag	gattatgggg	attacaattc	cagatgagat	ttgggtgggg	420
acacaaagcc	aaaccatatc	aactgtgact	accttgggta	agggccatcc	aggcagaggg	480
agggggaaca	ttctgggcaa	aggccttggg	gcaggggcct	ggtatgttca	gatagcagca	540
agtagggcag	antggccgga	ggggagtaag	tgtggggagg	ccagtggaaa	aatganggta	600
gggaaaggga	tggatcagat	catgcagggc	cccggggggc	acangaagga	cctnacattt	660
actgcaagta	angtgggagc	catcgaatgt	tctaagcana	ngangaatcc	ctgngactca	720
ngtgtn						727

<210> 332
<211> 734
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(734)
<223> n = A,T,C or G

<400> 332
gnntganagt atacgactca ctatagggcg aattggggccc tctagatgca tgctcgagcg 60
gcccggccagt gtgatggata tctgcagaat tcgccctttc gagcgggccgc ccgggcaggt 120
accctttctcg cttttgccat tagccaagga tagaagctgc agtgggtatta attttgatat 180
aatcttttcaa accagcttca tgtggcttcc cttttctttg ttcaagatga gggccaggag 240
gggaaacatc acacctgccc taaacctgt tcttggaggt cagcatttga tctgttgcaa 300
gcccctcttt ctgtcccttc ttctaccct gcctcccatg actttgctcc tcacactttt 360
ggaaccatgc cttccggggg ggcccatctc ttctggccgt ccttgtctct gggccacttg 420
gagtgtgtga taaatcagtc aagctgttga agtctcagga gtctctggta gcctgcagaa 480
gtaagcctca tcatcagagc ctttctcaa aactggagtc ccāaatgtca tcaggttttg 540
nttttttttc aaccactaag aaccctctcg cttttaactc tagaatttgg gcttggacca 600
gatctaacat cttgaatact ctgccctcta gaccttcacc ttaatggaan gtggatccca 660
nganggtgta atggacatca agccactcgc ggcagcatgg agctatacta agcatcctta 720
nggtctgcct ctcn 734

<210> 333
<211> 710
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G

<400> 333
ntgggcccctc tngngctgct cgagcggccg ccagtgtgat ggatatctgc agaattcgcc 60
ctttcgagcg gccgcccggg caggtaccct tctcgctttt gccattagcc aaggatagaa 120
gctgcagtgg tattaatttt gatataatct ttcaaaccag cttcatgtgg cttccctttt 180
ctttgttcaa gatgagggcc aggaggggaa acatcacacc tgccctaaac cctgttctctg 240
gaggtcagca tttgatctgt tgcaagcccc tctttctgtc cctcttctct accctgcctc 300
ccatgacttt gctcctcaca cttttggaac catgccttcc gggggggccc atctcttctg 360
gccgtccttg tctctgggcc acttggagtg tgtgataaat cagtcaagct gttgaagtct 420
caggagtctc tggtagcctg cagaagtaag cctcatcatc agagcctttc ctcaaaactg 480
gagtcceaaa tgtcatcagg ttttgttttt ttttcagcca ctaagaacct ctctgctttt 540
aactctagaa tttgggcttg gaccagatct aacatcttga atactctgcc ctctagagcc 600
ttcagcctta atggaagggt ggatccaang anggtgtaat ggaacatcaa gccactcgcg 660
gcagcatgga gctatactaa gcacccctta nggtctgcct cttcagcatt 710

<210> 334
<211> 2051
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(2051)
<223> n = A,T,C or G

<400> 334
gcccttgccct cagcctaccc agtagctggt gatggccatc cttttataaa tgcaacgtcc 60
ttcgttctctg ttaagtcagt ggggaggaag gccctttctc tcttcagtct aataatcaac 120

tggtcactat	tcacaatagc	aacatcatgg	getgaacct	tgtgtccatc	aacagatgat	180
tagattttta	aatgtgcata	tataccatgg	aatacatacg	caaccatcaa	aaataatgaa	240
atcacatctt	ttgcagcaat	atggatggaa	ctggaagccc	ttatcgtaag	tgaaatgact	300
cagagacaga	aagtcagaaa	ctgcatgttc	tcatttggaa	actgaaaatc	acacacacat	360
aaatctaata	aagacatggg	tactttatct	tcaaaacact	catatgttgc	aaaaaacaca	420
tagaaaaata	aagtttgggtg	gggggtgctg	ctaaacttca	agtcacagac	ttttatgtga	480
cagattggag	cagggtttgt	tatgcatgta	gagaacccaa	actaatttat	taaagaggat	540
agaaacaggc	tgtctgggtg	aaatggttct	gagaaccatc	caattcacct	gtcagatgct	600
gatagactag	ctcttcagat	gtttttctac	cagttcagag	atgggttaat	gactagtctc	660
aatggggaaa	aagcaagatg	gattcacaaa	ccaagtaatt	ttaaacaaag	acactttttt	720
ttttttttgc	aacacaatat	acatcacagt	gaaatgtgta	atccttgcaa	attgcaagtt	780
gaaagaatta	aattcagagg	aggggagaga	aagagtactc	agtagggact	gagcactaaa	840
tgcttatttt	aaaagaaatg	taaagagcag	aaagcaattc	aggctaccct	gcctttttgtg	900
ctggctagta	ctccggtcgg	tgtcagcagc	acgtggcatt	gaacattgca	atgtggagcc	960
caaaccacag	aaaatggggg	gaaattggcc	aactttctat	taacttatgt	tggcaatttt	1020
gccaccaaca	gtaagctggc	ccttctaata	aaagaaaatt	gaaagggttc	tcactaaacg	1080
gaattaagta	gtggagtcaa	gagactccca	ggcctcagcg	tacctatta	gtaattgttt	1140
tggtgtttca	tttttttcta	atgtctcccc	tctaccagct	cacctgagat	aacagaatga	1200
aaatggaagg	acagccagat	ttctcctttg	ctctctgctc	attctctctg	aagtctaggt	1260
tacccatttt	ggggacccat	tataggcaat	aaacacagtt	cccaaagcat	ttggacagtt	1320
tcttgtttgt	tttttagaatg	gttttccctt	ttcttagcct	tttctgcaa	aaggctcact	1380
cagtcccttg	cttgcctcag	ggactgggct	ccccagggcc	taggctgctt	tcttttccat	1440
gtcccaccca	tgagccctcc	actggacagc	tcagtaagcc	tggcccttca	ttctgctctg	1500
tggtcttctt	ctgtgaaaat	ccaatacctc	ttacctcttc	tgcattgcaa	gattctcaag	1560
gattgtcaga	cttcaaactg	aacagcagaa	ccaccagaag	gtcctataaa	tgcagtatgt	1620
accttctcaa	gctgtcaggt	ctttaaatag	gatttgggag	ttaatgctat	gtatttttaa	1680
aggaaagaaa	taagagttgc	tagtwttaaa	aatgcatgtc	ttttagccaa	ttcagaatct	1740
gcccccaaac	tttttttaaaa	agtcaagaca	gataaagett	tggggagacg	gaaaaaaaaa	1800
aaaaaaaaaa	aacaagtacc	tcggccgcga	ccacgctaag	ggcgaattcc	agcacactgg	1860
cggccgttac	tagtgggttc	nanncccggg	acnaaneett	gggggtttta	caagggncaa	1920
ancngyttnc	cggggntnaa	aattgttacc	cgcnaaaaaa	tccanaaaaa	natncgaacc	1980
cggaaancca	taaaanttnh	aancccnngn	ggcnaagggg	agnngnnnaa	cccnaataaa	2040
tggnntggnc	c					2051

<210> 335

<211> 1312

<212> DNA

<213> Homo sapien

<400> 335

acctagaaaa	cagaaacttg	agtagacatg	gtaatgacca	gaaaaggcta	tctttatata	60
tttcttttgc	tacgcttcaa	attcatgtca	cctaaaagtt	gtgaagtgca	caaaacaaat	120
ctacttaact	gaaaattatt	ttcaatgaat	gggatgttta	gaactctgtg	aggggtttta	180
aggtcttttc	gaatagcaaa	ttctaattgag	gcttttttaa	gttggcaatt	taaactcata	240
caagaaataa	aaactcacca	gtgtggctgg	gcagaatata	tatattttct	caaataattgt	300
ttgtttgttt	tttccctgca	ctgtatccat	gggtcccatga	tgaaactggt	atattgtctga	360
tatatatttt	ggaatatgtg	ggccaacttc	ctttccactc	aacatatgga	ttggtagttt	420
aaaataattc	ctttctatta	agcaaatgtg	tggctaaagg	acatttaaat	agcccattaa	480
accaatgaga	tgacaatgtg	ttaccctcag	agaaagctta	atttttggag	taatcaatta	540
cacatattcac	agaatgtctc	atgagaacat	ttttggctag	gtctaccaat	ttatcatgca	600
aataattata	gattttcatt	tgaggcaaa	atgctgattc	atcattagta	acatggtcac	660
aaataatcat	ttattttatt	tttgtttaaca	tctgtcttct	ctgtggggaa	acttactata	720
tgctctacgt	ttattttaatt	taaaaagtca	attggttatt	ctgaattttt	aaaaataaca	780
taaaactggt	gttctaaatc	acagcacctg	cttttctttt	tttagtgaaa	ttatataagc	840
atttagagaa	tgaaagtgtg	agacttgttg	tttctggctc	ctttttactg	tttgtaagcc	900
tactcgtcat	gatattccac	aatgggtcac	ttgcctttta	atgctcttat	agatatcttc	960
aaacttgctt	acatatatac	gcctttgttg	gagtgggcta	ccatcatcag	gaatgatgtc	1020
atttgtttct	tcaaactcct	ttattatacc	aaaaaagtga	cagactccac	agtctgatca	1080
gttttgagaa	aatatgttaa	cattttcaat	tatctcactt	tctagaatca	aaatagtctg	1140
atgttttttt	ttcggcactc	agtgtaaaga	acaaagaact	gaatacagtg	ggocccagaag	1200
agaaatatgc	ctcatcattt	ttattagctt	tgggaactgtg	gacaagtcac	tcaacctagt	1260
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<210> 336
 <211> 787
 <212> DNA
 <213> Homo sapien

<400> 336
 acagccatga aattgttgct actcatagaa agtcttagta tagtttggtt taaacatttt 60
 aaaattgcaa ataatatag atagataata tcatgatgag aagggtcacgg gaagcctgga 120
 gatttcaggg tgccttttca taattggagc gagaatcatg taacagttaa gaaactaaac 180
 tcttgagcct tcatagtctt tgccttctcc ccattttatt atctgatatt atataccctc 240
 ttttaattata gactggactg aaatatttta tttttgtttt attataaaaa atcctactcg 300
 tctttaacat gttctcttaa agagtgtttc atatataaat actttccccc caaaatataa 360
 agaggctaac cactatagta ttgaaagatt gaaagaaaga cctagggtgt ctaaaaccaa 420
 atttaaaggc tcagttctaa gaggagttaa aatgcttctt ttgtaagcac tttaaacttc 480
 atctttaaac attgatgaga atattataaa gaattcacia cagcagttac atggaggtag 540
 aaaagagtgt tgagaagaag gaggtgtgatt gcaacaaata caaagaaact attgagatgt 600
 aacaaagacg tgcaattacc tatgaatggg taaaccagtt atatattttg ctttcacagc 660
 atgagattat ttttaatttg aattggttta catgtaatg acacttccat tttaaagatt 720
 ttatgcatgt aaccttaata ctctcaaggc ttcagactt cagagaggta gctcatactt 780
 tcattgt 787

<210> 337
 <211> 772
 <212> DNA
 <213> Homo sapien

<400> 337
 acatcagtg tcatTTTTatt atttcttaca ctgtcttcat gacttacaca taatattttg 60
 ctagtTTTtaa aacataagat gtgataataa tctaaacaga ccaaaggaaa taaatgaata 120
 tgattaaaaa agacacagaga ataagccctg tctgatggaa agcataacaa agcaggtaga 180
 acaactgtca ggaatgcttg atccaataaa gctagggttg tgatccacaa cacttcagca 240
 ttttaatgtg atttttgatg tttgcttttt gcaatgggtga ttctcagttg cctccctctc 300
 gtgtctttac aagctgaaat caagtgaagc tacttctgac tttttctaaa acttaaacc 360
 aacatgaagg tctgcgtatt ctttcacatg tgacgctatg tggcactttt ccatgatgca 420
 acagcagcgg gtctctagct aagctacagc agcagctcta agaggcagag gaccctgaaa 480
 tgaggctgaa agaaagaata gtccataact gacatcaggc aggtctgtgt tgtaagcaca 540
 gaaaggaggc tcacggcgcc atggactcag gccaggtcac actattgttg gagaacacgg 600
 agcacagtg tcagctggaa aggggcccgc tcaggagaca aaataggcac gagaggaaac 660
 cgaaaaattg acatatgtga ctatccttgt agaaatgtat aaaggtttg attattttgc 720
 ttatcgagtt ataataaagt tattctaaaa atgtttatct aaagtattat gt 772

<210> 338
 <211> 1383
 <212> DNA
 <213> Homo sapien

<400> 338
 ttactcacta tagggctcga ggggcccgc gggcaggtgt aaaaataaaa tgacagtttg 60
 aacatacaaa acccacccca ttctataga gcttagtact acactacccc ctcccaactt 120
 tagcctccac atatagtaat gtgcttgga cacaataaac acttcataaa ttgtgctgaa 180
 tgaaatcatt tccatgagtg tttatggatt ttgagttcat ttgtacctt tacctaaaat 240
 tctagccact ttaatttgga gagtttccag agcaaaggac cttttaccta aaattctagc 300
 cactttaatt tggagagttt ccagagcaaa gggcacagat ccaggcata acaacgcttt 360
 gcgtatacag caaccaatat ctgtcaacc caagaaggtt cctccattga tacctagtag 420
 aaatagccca gtttttaaag tctcaaaac tgtaacaaat taottgtttt taaaatttaa 480
 cttaaattaa tacaatcaga tttttgtgtt atttgggtat tagagtatgt taaagcacat 540
 atatccaga gacatagagt ttccgtttca aaaagtcag cattcatgtg tgctaattgac 600
 aatcctatcc tgaccgcta tgtgacttgt atctctaac cataggcttt cctgaatttt 660
 atctgttaat ttaaccctga tttctcagca gcagcttctc tttgtaata gacttgccctc 720
 ttctgtgtct gacctctgct cctcataatc agattaactc agataaagct gcttcaggga 780
 agaggc aaa accgttgcca aaaatagtag ttgccctact tcagtctatt ttcaacagag 840

tagccaggag	atcctgttca	caccaaagtc	caatcagccc	tactgttagc	actctgctca	900
caagcctcca	gtggcttccg	acctcactca	cagtaaaagc	caagtcatcc	tttagcctat	960
gatgtcctac	atgatttgaa	ttcccttcca	ttgatttttg	tcactgattt	ttaaaaatcc	1020
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ctcagtcaag	cctttattta	gatgccccct	tctcatcaag	gcattctctg	atctccttat	1200
ttaaatgtat	gacacccctt	ctttgcttta	catttaataca	gaacatgtgt	cactatctag	1260
catataatac	atttgcttga	cctcttttgt	ttactgtcta	tgccctctga	atactgtgta	1320
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agt						1383

<210> 339

<211> 1815

<212> DNA

<213> Homo sapien

<400> 339

actttttgtt	cattttgatt	tttggataat	gcaaaattat	agatttttta	aaaattatat	60
tcaaagaata	ctgagtga	gacaatcttt	ctaggttaaa	aaatatctta	taaacctgaa	120
ttgtcaatta	ttattgtatc	ccagatgtat	ggaagttaat	ggatagtcag	taacatacag	180
gactagcaga	aggtttggtg	ttataggtaa	tctggagaga	agccaggtaa	gtggaatttg	240
ggatttgctg	ctgttgccag	aaagcagcac	agagacatgg	taagtggcaa	gacccaggta	300
actaaaacaa	ccatgtctta	gtccttttat	gctgctgtaa	cagaatatca	cagactgagt	360
aattttataat	gaacagaact	ttatttgtct	tctgggtctg	gagactggga	aatctaagag	420
cgtggcattg	acatatgggtg	agggcatttg	tgccctcatca	tcccatgaca	gaagatggaa	480
atgcaagaga	gctcaaaagc	aagagagcaa	atggggccaa	acttgctttt	tataacaagc	540
cactcttctg	ataatgaacc	aactcaaaca	ataaagacat	aaatccattc	atgagggcag	600
agccctcaag	gatgaatcac	ttcacttctt	aatggcctca	gcttctaata	ccatcacaca	660
agtaattcag	tttcaacatg	ggttttatag	ggacgttgga	accacagcaa	actgtaacca	720
ttttgatttc	cttatttgca	ccattttaaa	aaaacctatt	tatttaacga	ctgtttattc	780
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aatatagata	tacattggta	gcagttttgt	gtatatTTTT	atagtttagat	gttggttgga	1020
catgtgactt	gtgtctcaga	aaaatacaga	aaatgggttaa	agacaggagg	atactaccct	1080
gatttctctg	ttcattaaag	aacagctatt	tgggggggaaa	acctgataca	attattttgag	1140
catgtggcct	aaagattaga	cctataaaaca	attcaggagc	atcttccagc	aaactgtgtg	1200
agaattcaca	gaaataaaacc	tggtagggtt	gtgctatgtt	attcacatgg	gctgttaact	1260
cttttccatt	cctaggtcct	ttatttccct	gccctcctca	atctcatgct	cttgagattt	1320
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